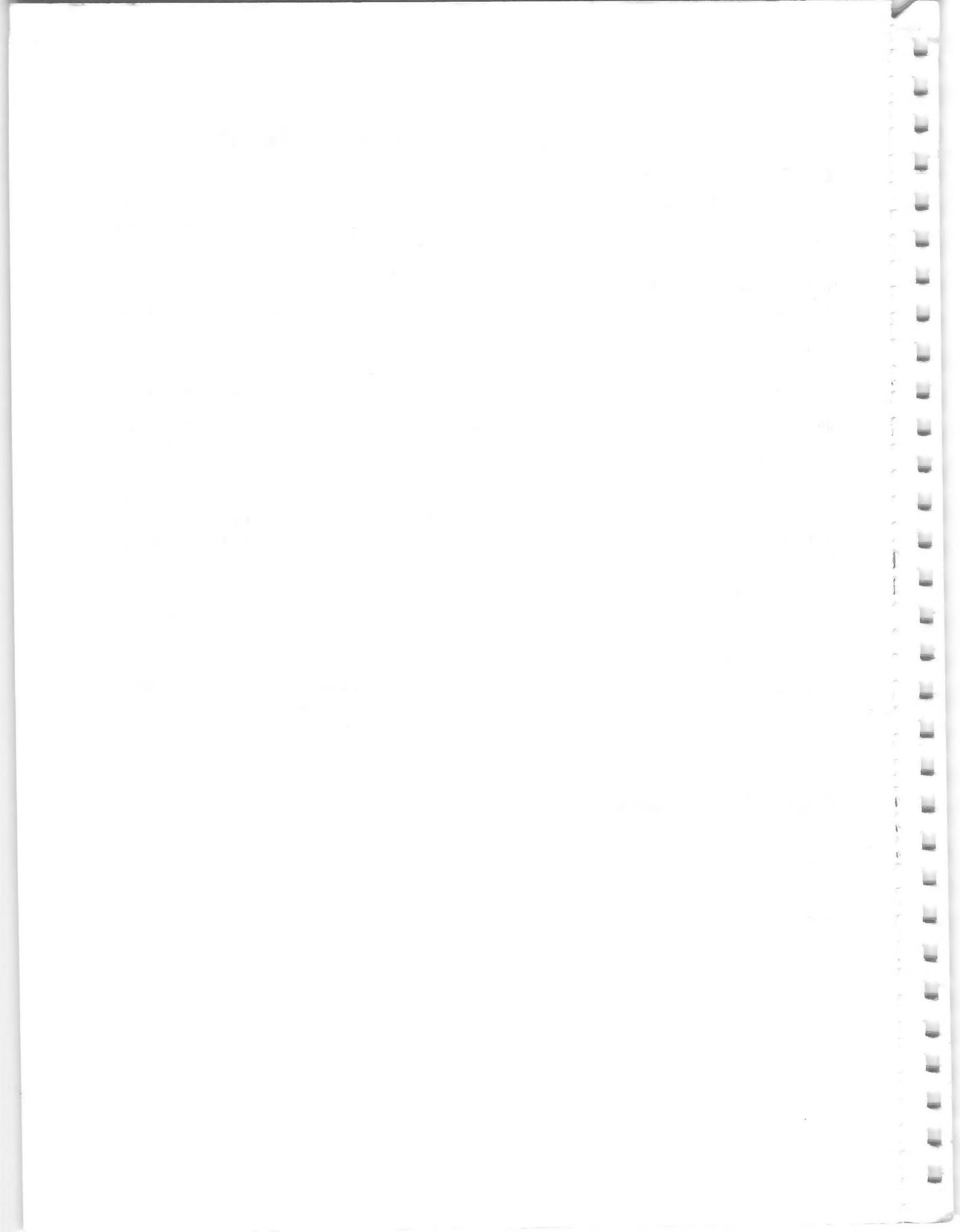


*1995-96 Catalog*

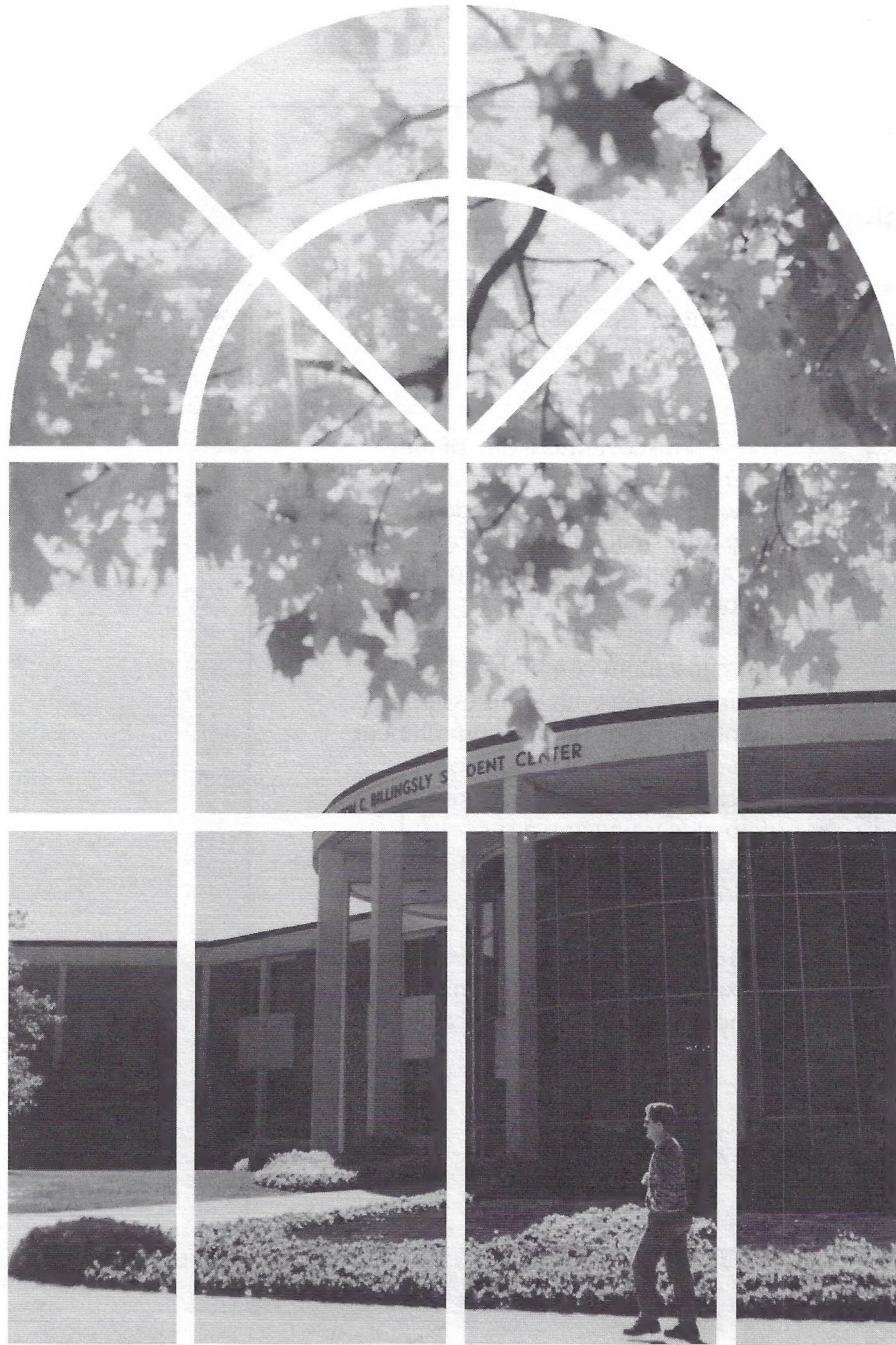


**SOUTHERN**  
MISSOURI SOUTHERN STATE COLLEGE



# *Missouri Southern State College*

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***1995-96 Catalog***

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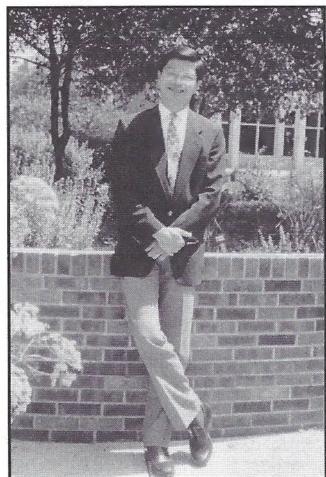
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### From the President

The ideal public college fulfills its mission by educating citizens of all ages and socioeconomic backgrounds. Missouri Southern State College is proud of the role it plays in the intellectual and personal growth of its diverse student body.



You will discover here one of the finest values in higher education anywhere, with quality academic programs, small classes, excellent and accessible professors, and reasonable cost.

Our curriculum combines a liberal arts foundation with a professional orientation and a strong commitment to the international aspects of education in order to prepare you for lifelong learning and a successful career in a rapidly changing and competitive world.

We invite you to come to our beautiful campus and visit with our faculty and staff so that you can experience true "Southern" hospitality and learn for yourself how Missouri Southern can prepare you for the 21st Century.



Julio S. Leon, President

**Dear Student,**

If you're entering college for the first time, or even coming back after several years' absence, there is information in this catalog you'll need. It's not the most exciting bedtime reading, but it does pack a lot of information about our academic programs throughout your college experience.

This catalog and our helpful staff also can answer your more immediate questions:

### **1. Can I get some financial help with college costs?**

Yes, a full range of financial aid programs are available to qualified students. Mr. Jim Gilbert and his staff can provide you with information and applications in Hearnes Hall 114, 625-9325. (*Financial Aid*, page, 20)

## **2. I haven't decided on a major yet. What do I do?**

Southern has trained counselors to help you discover what your best interests and attributes might be. Visit with Dr. Linda Caldwell, Hearnes Hall 115, 625-9324. (*Counseling Services*, page 26)

*3. I'm concerned about the transition from high school to college. Is there someone to help?*

The Counseling Services can help here too, as well as your College Orientation class. See Dr. Linda Caldwell or Mrs. Susan Craig, Hearnes Hall 115, 625-9324. (*Orientation, page 26*)

**4. Do you have an Honors Program?**

Southern has an excellent and challenging Honors Program which includes a summer study option at Oxford University in England. Talk to Dr. Lanny Ackiss or Dr. Patricia Kluthe, Webster Hall 137, 625-9686. (*Honors Program*, page 33)

#### **5. What activities and organizations are available?**

A host of special events, student activities and departmental organizations are available throughout the year. Drop by Val Carlisle's office, Student Center 101, 625-9320. (*Student Activities*, page 27. See also individual departments.)



# Our Mission

Missouri Southern State College is a state-supported, comprehensive college offering programs leading to the bachelor's degree. Faithful to its original statutory charter, the College also offers continuing education courses and a number of two-year programs in technical and vocational areas for the benefit of the community.

The College's primary emphasis is the offering of a baccalaureate program that fosters the total education of each student. Central to that mission is a strong commitment to international education, to the liberal arts, to professional and preprofessional programs, and to the complementary relationship that must exist between liberal and professional education in order to prepare individuals for success in careers and lifelong learning.

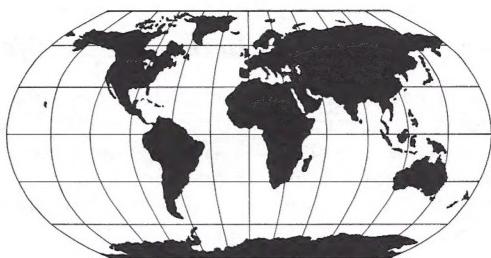
Inherent in its international approach to undergraduate education is the College's desire to prepare its students to understand world affairs, international issues and other cultures as seen through their history, geography, language, literature, philosophy, economics and politics. Knowledge and understanding of other cultures of the world also promote better understanding of our own valuable cultural diversity.

Missouri Southern's commitment to the liberal arts is reflected in a comprehensive program of general education requirements for all students to ensure that they have a breadth of educational experiences which will enable them to develop communication and critical thinking skills and to acquire and apply aesthetic, contemporary, civic, international, historical, mathematical, scientific and value-oriented perspectives.

The faculty and staff of Missouri Southern State College emphasize quality teaching and learning as the most important attributes of the College, complemented by scholarly and creative expression and dedicated community service. Community service involves responsiveness to the Southwest Missouri region as well as serving as the intellectual, creative and cultural center of the area.

In order to remain loyal to the trust given to the College by the people of the State of Missouri, Missouri Southern State College will:

- periodically review its mission in light of contemporary changes in society and in the needs of the people of Missouri;
- continually assess the effectiveness of its programs in order to ensure their quality and integrity.



## International Education

On June 15, 1990 the Board of Regents of Missouri Southern State College approved a recommendation to pursue an international approach to undergraduate education.

The move to an international approach to our educational mission is prompted by the realization that the successful citizens of the 1990s and the 21st century will have to possess better knowledge and awareness of the people, languages and cultures of other countries of the world. The dramatic changes that are taking place in the economic and political systems of Russia and Eastern European countries as well as the challenge by Asian and European countries to American economic leadership make self-evident the need for a college education with a strong global perspective.

Missouri Southern State College is phasing in over several years, different programs and activities designed to internationalize our college. Among these are included:

- Revising the curriculum to include a global perspective in every possible course.
- Expanding the teaching of foreign languages to include, among others, Russian, Chinese, Arabic, Italian, Japanese, etc.; in addition to German, French and Spanish.
- Increasing opportunities for Missouri Southern students to study abroad.
- Staging conferences and lectures on world affairs, as well as cultural and artistic programs with international performers.
- Creating new courses in international studies.
- Increasing the participation of international students.

As these programs are implemented, our present and future students should take advantage of them and prepare for the global environment of the future.

# A Student's Guide to the Baccalaureate Degree

*Non Scholae Sed Vitae Discimus*  
***“Education not for a living, but for life.”***

We the faculty at Missouri Southern believe that you achieve a complete education through an interrelated program of study which includes the **Core Curriculum** and **classes** in your **major**, as well as the extra-curricular opportunities available to you that complete the total collegiate experience. We realize that over a lifetime many of you will change occupations and careers several times. While

specialized knowledge in your field is essential, we believe that certain lifelong thinking and learning skills and a common body of knowledge are critical for an understanding of yourself and your larger community and for career advancement in the 21st-century marketplace. Specifically, we are committed to assist you as an undergraduate to

- Acquire knowledge, both in breadth and depth, through exposure to a wide variety of disciplines and through majoring in your chosen field.
- Communicate with precision and style and to think clearly and critically.
- Achieve competence in quantitative skills.
- Know the methods of inquiry and thought necessary for understanding nature, society and self.

- Sharpen your awareness and appreciation of other cultures with their differing values, traditions and institutions.
- Develop lasting intellectual and cultural interests.
- Learn more about yourself and demonstrate mature decision-making skills.
- Achieve greater social maturity and tolerance for human diversity through the experience of working closely with a wide variety of fellow students and faculty members.

## Core Curriculum

The Core Curriculum at Missouri Southern is a carefully designed series of courses that all students earning a bachelor's degree must complete. It is our effort to furnish you a liberal education. But why? What about the Core is so important that it constitutes nearly half of the credit hours necessary for your degree?

One way to answer that question is to reflect on another: What does it mean to be well educated? After all, that is what a college degree

signifies, that you are a well-educated man or woman. While the question has generated much debate and while there is no simple answer, most agree that a well-educated person possesses certain fundamental intellectual skills, a broad knowledge of the world and a deep knowledge of a particular subject. While pursuit of a major field of study furnishes knowledge in depth, it is the Core Curriculum that seeks to arm you with the powers of mind and the breadth of knowledge that characterize the well educated.

## Goals of the Core Curriculum

The College defines three broad powers of mind that are essential to the well-educated:

The College defines three broad areas of knowledge the well-educated must master:

**Communicating.** Well-educated people can communicate effectively to inform, to understand, to analyze and to persuade, and they do so not only with words but with numbers, graphs and symbols. Whether reading or listening, speaking or writing, our graduates can communicate well.

**Critical thinking and problem solving.** Critical thinking means to look at the world from a variety of perspectives, weigh evidence, sort through implications and think clearly towards understanding. Our graduates can think critically to solve problems—be they scientific, social, or personal—analyzing them and devising solutions.

**Clarifying values.** All choices are guided by value judgments, judgments about the way things ought to be. A well-educated person can identify personal values and the values of others, understand how such values develop and analyze the implications of choices made on the basis of value judgments.

**Functioning within social institutions.** A well-educated person must understand the complex fabric of society: governmental and economic systems, religion, family institutions, civic duties, the worlds of work and play—the whole range of things that constitute a culture. Our graduates can understand the influence social institutions have on themselves and others.

**Understanding science and technology.** Science is one of humanity's most important tools for understanding the world, and technology for controlling it. Well-educated people possess not only a fundamental scientific and technological knowledge but also the capacity to evaluate the impact of science and technology upon humanity and the environment.

**Understanding the arts.** The arts are another of humanity's most important tools for comprehending existence, but the diverse arts—from literature, film and theatre to architecture, music and painting—also enrich experience. A well-educated person can analyze and interpret works of art and also analyze how they express and in turn influence a culture.

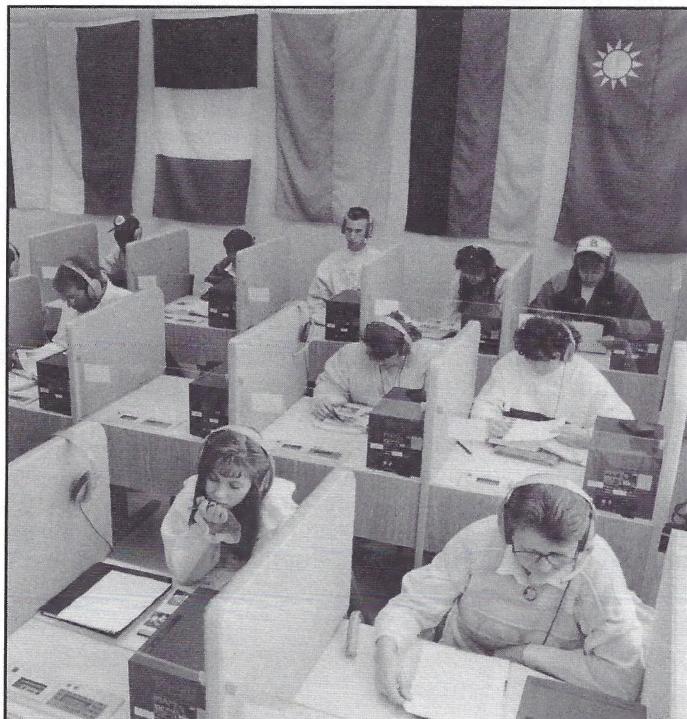
These six goals have shaped the faculty's design of your Core Curriculum. From one point of view, the core curriculum is still an array of courses from which students choose. But it is more than that. The word *core* is derived from a root that means heart. We the faculty believe that your experience in our Core Curriculum is the heart of an excellent education. It also provides the foundation for your study of your major.

Three major strands are woven into the college's curriculum in both the Core and the major: writing, computer literacy and international education. First, because writing is among the most crucial skills, Southern ensures that writing permeates the total course of study, starting in freshman composition courses and continuing through writing intensive courses in each major. Second, no one unfamiliar with computers will be prepared to face the 21st Century, so Southern has devised a computer literacy program to enable all its graduates to use these powerful tools. And third, as detailed elsewhere in this catalog, Southern has a special emphasis in international education. An awareness of other peoples, languages and cultures is becoming increasingly necessary. In every possible course, the curriculum includes a global perspective.

## Your Major

The College offers more than 60 majors in a wide variety of fields. Your pursuit of your major will furnish you with the knowledge in depth that is also characteristic of a well-educated person. Some students come to Southern with a clearly defined idea of their major; others come uncertain, relying on their exposure to the Core Curriculum and on experimenting with a few elective courses to help them choose.

In either case, when you emerge with your baccalaureate degree, you will have mastered a body of knowledge that sets you apart from well-educated people in other fields. Often it is your mastery of a particular discipline that makes you of great value in the workplace. Not only do you emerge knowing a great deal, but you also emerge armed with the power to learn more, to extend your knowledge.



## Special Features of Missouri Southern State College

A comprehensive education fostering life-long learning is the aim of our liberal arts curriculum. Southern strives to present the best in higher learning. The following features distinguish our college.

**Emphasis on Teaching.** The heritage of Missouri Southern is that of an undergraduate college where the interaction between teacher and student is of primary importance in the learning experience. Here you will be taught by professors with degrees from the most prestigious universities across the nation.

**International Mission.** The world is changing rapidly and dramatically. The future will belong to those who have an understanding and appreciation for the world beyond the boundaries of our country. That is why Missouri Southern has chosen to emphasize the global aspects of our entire curriculum and to add the international dimension to all of our courses wherever possible.

**Assessment of Outcomes.** Missouri Southern continually assesses the effectiveness of its programs, including the Core Curriculum and all the majors. The assessment information helps us revise and improve our programs. In this way, we ensure our curriculum is dynamic and up-to-date and not a static monument to past practice.

**Total Collegiate Experience.** A great deal of college education happens outside the classroom. An array of extracurricular activities is offered to meet almost every academic and social interest. In addition, a variety of services are available for the student to meet educational and personal needs.

**Diverse Student Body.** Not all students at Southern are the same age or from the same region or nation. We see its sizable enrollment of nontraditional students (those over 25) and international students as a great advantage. Rarely do we find "real world" situations in which people interact exclusively with others of their own age and hometown. On our campus, students come to see each other as friends and allies and learn to develop healthy and supportive relationships with a variety of people.

**Enrichment Programs.** Your opportunity for total education is enriched through a variety of special programs including the Honors Program, study abroad at Oxford University in England, Folkhögskola in Sweden and in Spain at the University of Salamanca, internships and independent study opportunities and special cultural events such as the biennial Missouri Southern International Piano Competition.

More complete information on each of these features is found in the catalog. And of course, our faculty and staff are always willing to help you in any way to make the most of your college experience. Don't hesitate to ask. We're here for you!

# Assessment of Outcomes

## Goals of Assessment of Outcomes

Assessment is an on-going, cyclical effort of identifying goals, developing programs to achieve those goals, evaluating the effectiveness of the programs, analyzing the results, redefining the goals and improving the programs. That cycle is a basic responsibility of all faculty and administrators. Stated goals of outcomes assessment at Missouri Southern are:

- 1. Evaluation of institutional effectiveness by research and assessment of:**
  - a. Core Curriculum programs and school department
  - b. Academic and developmental student outcomes
- 2. Improvement of both academic and student affairs programs:**
  - a. To increase student academic and developmental outcomes
  - b. To increase student retention and degree completion
- 3. Provision of data needed for long-range planning to fulfill the college mission**
- 4. Fulfillment of governmental mandates**

In its mission, Missouri Southern is committed to developing effective programs to fulfill the needs of the students while developing knowledge, skills and positive attitudes. In order to accomplish that goal, on-going assessment is conducted not only by professors in the classes offered each semester, but also by faculty and administration in annual program reviews. The Center for Assessment and Institutional Research assists faculty and administration in gathering data for those reviews. In addition, a Faculty Assessment Advisory Committee meets regularly with the administration to study current assessment methods and make recommendations for improvement of the College's assessment program.

## Program for Assessment of Outcomes

Importance of assessment for college accountability is underscored by a **Board of Regents Policy which requires that students participate in assessment activities when requested.** Information obtained from standardized tests, faculty developed tests, surveys, student research, portfolio review, student interviews and performances is used to develop both quantitative and qualitative data needed for the analysis phase of our assessment plan. Three identified areas of student outcomes are assessed each year: Core Curriculum, departmental majors and student development. In addition, follow-up studies of alumni and employers are conducted periodically.

**Core Curriculum:** Data for study is gathered each year by administering a standardized test and needed surveys to incoming freshmen and exiting seniors. The ACT COMP (American College Testing College Outcome Measures Program) is a standardized test used to measure the impact of a Core Curriculum on students as they progress through a degree program. Students are called upon to analyze, synthesize, apply and evaluate information, rather than just to recall or recognize content.

**Departmental Majors:** The faculty and administration of each department are responsible for evaluating the effectiveness of their programs. All departments have developed outcomes assessment programs for graduating seniors. Information gathered from quantitative and qualitative assessment is used by the department to review programs. A variety of assessment methods are used by the various departments.

Departments which offer degrees that lead to state or national certifications use the required standardized tests for entrance and certification as their quantitative measures. These departments include computer information science, dental hygiene, education, medical technology and nursing. Departments which use standardized major field tests that are offered by the Educational Testing Service or by their particular professional organization include biology, business administration, chemistry, English, environmental health, history, management technology, mathematics, physics, political science and sociology.

In major areas where standardized tests are currently unavailable, departmentally developed assessment plans have been implemented. The plans utilize one or more of the following methods: faculty developed exams, portfolio review, student interviews, external examiners, capstone projects and simulations, among others. The art, communications, criminal justice administration, music, psychology, Spanish and theatre departments have developed such plans.

**Student Development:** The impact of a college is not limited to the classroom. While Core Curriculum and departmental major assessment is focused on knowledge and skill outcomes, student development assessment focuses on social and personal growth of students both in the classroom and on campus outside of the classroom. Surveys and opinionnaires are the primary methods of gathering data to assess student development. Data are collected from entering students, currently enrolled and graduating students each year to assess current attitudes and opinions.

## Results of Assessment of Outcomes

### Core Curriculum

As our Assessment program matures, we have an ongoing commitment to use the data collected from tests, surveys, etc. to analyze trends and link results to the planning process. Teams of students, faculty, administrators and staff are studying this data. Assurance of the quality and effectiveness of our Core Curriculum will be the result. Generally, Southern's seniors score between the 50 and 60th percentiles consistently on total and suboutcomes of the ACT COMP exam.

## MISSOURI SOUTHERN STATE COLLEGE ACT-COMP EXAMINATION 1994

Class	Total Score Mean	Number of Students Tested
Freshman	172.2	641
Seniors	185.5	536

The table above exemplifies the positive impact on students at Southern from their Core Curriculum experience. Mean gain scores of our seniors who took the test as freshmen show significant gains in the 60th+ percentile range. This helps confirm our approach to the Core. Longitudinal data since 1987 has helped shape improvements and confirmations of success with this program.

Results for freshmen taking the ACT COMP exam show that students score highest in Clarifying Values and Using Science and Technology when comparing all six suboutcome categories. Senior results show the greatest gains are made in these same two areas as well as Solving Problems.

## Departmental

Departments are using their assessment data to make decisions on revising or continuing established curriculum. Surveys conducted on current students show satisfaction rates to be well above other four-year Missouri public institutions in almost every category. Departmental assessment shows positive outcomes as detailed in the following data:

**Teacher Education:** Graduates of Missouri Southern's teacher education program have taken the National Teachers Examination since 1969. Each graduating senior takes the Professional Knowledge and a Teaching Specialty Test in the area of subject expertise. The table below shows the averages for the six most recent years. Averages of Southern graduates from the education program have scored above the National average consistently through the years as shown in the table below:

## PROFESSIONAL KNOWLEDGE TEST AVERAGES

	MSSC		National	
	Score	Percentile	Score	Percentile
Spring '89	668	64	658	48
Spring '90	667	70	657	45
Spring '91	665	65	659	45
Spring '92	664	59	659	42
Spring '93	666	62	658	34
Spring '94	673	87	662	47

Southern graduates in 1994, for example, scored better than 87 percent of the 300,000 education program completers across the nation. The ACT entrance examination average for these 1994 graduates is 22.2, another indication that MSSC attracts and graduates qualified and capable students.

Other departments give the Major Field Assessment Test (MFAT) from the Educational Testing Service to their graduates. Available results of 1994 test sessions include:

## MFAT AVERAGES FOR SPRING 1994 GRADUATES

Department	Percentile
Chemistry	98%
Mathematics	53%
Business Administration	60%

## Health Related Programs

**Nursing:** Graduates of the Nursing Program traditionally excel on the State Board Examination. Few departments could match our successful record — 100 percent of all Nursing Graduates since the program's 1968 inception have passed the NCLEX certification test. Health related programs such as Dental Hygiene and Radiologic Technology have had similar successes.





### Campuscape

Missouri Southern's modern 320-acre campus is built on the site of the historic Mission Hills Estate, with the Spanish style mansion still a part of the scene. The 15 major buildings nestled in a beautifully landscaped suburban setting were all constructed since 1965. Special campus features include a biology pond frequented by Canada geese and the Stults Memorial Garden with aromatic plants indentified with braille signs.



# Fee Policies

## Schedule of Fees

### Tuition and Incidental Fees

<i>Tuition (per credit hour)</i>	
Missouri residents . . . . .	\$66.50
Non-residents . . . . .	\$133.00
<i>Textbook Rental Fee (per credit hour)</i> . . . . .	
Equipment Use Fee - full time students . . . . .	\$20.00
part time students . . . . .	\$10.00
Student Activity Fee - full time students . . . . .	\$20.00
part time students . . . . .	\$10.00
Parking Fee . . . . .	\$5.00

### Other College Fees

Application for Admission ( <i>non-refundable</i> ) . . . . .	\$15.00
Change of Class Schedule ( <i>add/drop fee</i> ) . . . . .	\$5.00
Late Registration . . . . .	\$10.00
Student ID (first time students) . . . . .	\$2.00
(replacement card) . . . . .	\$5.00
Commencement . . . . .	\$20.00
Transcript ( <i>first 2 without charge</i> ) . . . . .	\$1.00

### Special Course Fees

Applied Music ( <i>per credit hour</i> ) . . . . .	\$65.00
Art Materials ( <i>varies with course</i> ) . . . . .	\$5.00 - 10.00
Dental Hygiene ( <i>first term</i> ) . . . . .	\$999.00
Education Course Materials . . . . .	\$2.00 - 8.00 <i>(varies with course)</i>
Freshman Orientation . . . . .	\$10.00
Manufacturing Technology . . . . .	\$15.00
Music Recital ( <i>senior music majors only</i> ) . . . . .	\$50.00
Music Techniques . . . . .	\$100.00
Photography . . . . .	\$25.00
Radiologic Technology ( <i>first term</i> ) . . . . .	\$100.00 <i>(all other terms)</i> . . . . .
Science Laboratory Breakage and Materials . . . . .	cost

### Residence Hall Fees

Residence Hall Cost ( <i>per semester</i> ) . . . . .	\$1462.00
Apartments ( <i>per semester</i> ) . . . . .	\$1474.00
Refundable Security Deposit . . . . .	\$100.00

*Other incidental fees for supplemental class materials, testing or other course-related costs may be assessed as required.*

***The College Reserves the right to change fees without notice.***

### Payment of Fees

#### 1. Tuition and Incidental Fees

For all students who have pre-registered, at least 50% of the semester charges must be paid two weeks prior to the first day of classes for that semester. The remaining balance on account will subsequently be due before the end of the third week of the semester. Failure to remit the

first 50% installment according to these payment terms will result in an immediate drop from all pre-registered classes before regular registration.

For students who enroll during regular registration, payment of 100% of the fees charged will be due and payable on the day of registration. Failure to remit the balance due will result in an immediate drop from the student's class schedule.

Statements of account will be mailed to all pre-registered students prior to the initial payment deadline. Final statements will be mailed at the end of the first week of the semester.

It is extremely important to realize that a financial obligation is incurred at the time of enrollment. Services are rendered as of the first day of class so unless a student officially withdraws prior to that day, fees will be assessed in full. No reduction in charges according to the College refund policy will be credited to the student's account until an official withdrawal is completed. Failure to pay fees in accordance with the stated payment plan will not necessarily relieve the financial obligation incurred if the student is dropped for non-payment.

Students expecting their fees to be paid through financial aid sources must have all documentation filed with the Financial Aid Office by August 1st for the Fall term, and by January 1st for the Spring term in order to receive consideration for payment deferment.



## 12 / Fee Policies



Students enrolled in evening classes for regular college credit courses, applicable toward an associate or baccalaureate degree, are subject to the same fees, rules and regulations as set forth for students attending day classes. Special fees for classes not applicable toward a degree program will be announced in the Evening Session Bulletin.

Students enrolled in summer classes will be subject to the same fees, rules and regulations as followed in the Fall and Spring semesters immediately preceding the Summer Session.

Appeals concerning special problems pertaining to fees should be directed in writing to the Senior Vice President in Hearnes Hall, Room 200.

### 2. Residence Hall

Fees must be paid following the same payment schedule as outlined under the previous section for Tuition and Incidental Fees. Students will not be permitted to move into the Residence Halls without remitting payment of at least 50% of total fees (including tuition and residence hall fees) or receiving a payment deferment from the Financial Aid Department.

As stated in the contract agreement, students will be responsible for the full semester fee, except as specified in the contract, once they have checked into the Residence Halls even upon complete withdrawal from school. The security deposit will be refunded only if the terms of the contract have been fulfilled.

### Explanation of Fees

**Admission Application Fee** - a non-refundable administrative fee required upon submission of an application for admission.

**Change of Class Schedule** - an administrative fee charged for each class change (add or withdrawal) made after the first week of the semester.

**Commencement** - a fee assessed to all candidates for an associate or baccalaureate degree during the last semester before completion of degree requirements. Included in this fee are the cost of the cap, gown and diploma and other commencement activities.

**Equipment Use** - an incidental fee assessed each semester which enables the College to provide the most technologically current equipment for use in the classroom and laboratories. All fees collected will be used solely for the purchase of equipment which will directly benefit the students in their college course work.

**Late Registration** - an administrative fee assessed to students who enroll for classes after the first full week of the semester.

**Parking** - an incidental fee assessed each semester to cover all costs associated with vehicle registration, roadway & sidewalk maintenance and campus security.

**Special Course Fees** - fees charged for additional course materials or services supplied by the instructor. (Courses include but are not limited to art, music, education, nursing, dental hygiene and photography).

**Student Activity** - an incidental fee assessed each semester to support various aspects of campus life including student activities, student government, student publications and other events and services provided by the College.

**Student I.D. Card** - a one-time fee assessed to all new students allowing the issuance of a photo identification card. This card is required not only for identification purposes but also must be presented in order to check out library materials, to be admitted to campus activities, to obtain meals under the Residence Hall meal plan or to conduct business in various campus offices such as Financial Aid, Cashiers Office, Ticket Office, etc.

**Textbook Rental** - a per credit hour fee assessed for the use of rental textbooks. The College operates a rental system through the College Bookstore which allows the use of the required textbook by the student for one semester. Before rental books may be issued, the student is required to have paid at least 50% of the total fees due for the semester. Students are required to return these textbooks within 24 hours of the completion of their last final exam for the term. It should be noted that some classes may require the purchase of supplemental books and materials not available through the rental system. These materials will not be billed to the student's account but must be paid for at the time they are purchased at the College Bookstore.

**Transcripts** - an administrative fee charged for additional transcripts requested by the student. Each student is entitled to two official transcripts without charge. Payment must accompany the written request for any additional transcripts.

### Refund Policy

#### (Except for Residence Hall Charges)

During the course of any semester, if a student finds it necessary to drop individual classes or fully withdraw from college, the fee refund policy is as follows:

#### For Fall and Spring Semesters

Prior to the first day of class .....	100% refund
First through fifth weeks .....	60% refund
After the fifth week. ....	0% refund

#### For Summer Semester

Prior to first day of class .....	100% refund
First through third weeks .....	60% refund
After the third week.....	0% refund

Withdrawal from classes during the refund period means that the student will be responsible for 40% of the cost of tuition.

First time students at the College who receive Federal financial aid under Title IV and who totally withdraw from classes

during their first academic year shall receive a pro-rata refund based on a Federally mandated schedule. Copies of the refund schedule are available in the Business Office.

*To be eligible for a refund, the student must formally complete a drop or a withdrawal form and submit it to the Registrar's Office. Failure to attend classes will not constitute a withdrawal.*

If the student withdraws after payment of any or all fees for the semester, any monies due to the student will be mailed after fee refunds have been applied. However, if the college costs have been paid partially or fully by financial aid (scholarships, grants, loans, other government assistance programs, etc.) the refund monies will be first applied to the financial aid program source. Once these awards have been fully refunded, any remaining balances will be forwarded to the student.

All refunds must be claimed during the term for which the refund applies. Students who feel that individual circumstances warrant exceptions to this policy may appeal in writing to the Senior Vice President. This appeal must be made during the term for which the refund applies.

For policies concerning fee refunds for Residence Hall charges, please refer to the Residence Life contract.



## 14 / Calendar

**June 1995**

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
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**July 1995**

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**August 1995**

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27	28	29	30	31		

**September 1995**

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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

**October 1995**

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

**November 1995**

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

# Academic Calendar

## 1995 SUMMER SEMESTER

- June 2 ..... Day and Evening Registration  
 June 5 ..... Classes Begin  
 June 8 ..... Last Day for Full Refund of Fees  
 June 12 .... Add/Drop Fees and Late Registration Fees Begin  
 June 22 .... Withdrawal After This Date No Refund of Fees  
 July 4 ..... 4th of July Holiday  
 July 6 ..... Last Day to Withdraw From a Class with a "W"  
 July 24 ..... Last Day for Complete Withdrawal from College with all "W's"  
 July 26 ..... Last Day of Classes  
 July 24-27 ..... Final Examinations (Evening Classes)  
 July 27 ..... Final Examinations (Day Classes)

## 1995-1996 FALL SEMESTER

- August 17 ..... Day and Evening Registration  
 August 18 ... Faculty Study Conference & Day Registration  
 August 21 ..... Classes Begin  
 August 25 ..... Last Day for Full Refund of Fees  
 August 28 .... Add/Drop Fees & Late Registration Fees Begin  
 September 4..... Dismissal for Labor Day  
 September 22... Withdrawal After This Date No Refund of Fees  
 October 20 ..... Last Day to Withdraw From a Class with a "W"  
 November 22-24 .... Dismissal for Thanksgiving Holiday  
 November 27..... Classes Resume  
 December 1..... Last Day for Complete Withdrawal From College with all "W's"  
 December 8..... Last Day of Classes  
 December 11-15 ..... Final Examinations  
 December 15..... End of Semester

## 1995-1996 SPRING SEMESTER

- January 11 ..... Day and Evening Registration  
 January 12 ... Faculty Study Conference & Day Registration  
 January 15 ..... Classes Begin  
 January 19 ..... Last Day for Full Refund of Fees  
 January 22 .... Add/Drop Fees & Late Registration Fees Begin  
 February 16 .... Withdrawal After This Date No Refund of Fees  
 February 21 ..... Senior Assessment Day  
 March 15 .. Last Day to Withdraw From a Class with a "W"  
 March 18-22 ..... Spring Break  
 May 3 ..... Last Day for Complete Withdrawal from College with all "W's"  
 May 8 ..... Last Day of Classes  
 May 9 ..... Reading Day — No Finals  
 May 10-16..... Final Examinations  
 May 16 ..... End of Semester  
 May 18 ..... Commencement  
 May 20-31 ..... Intersession

**December 1995**

S	M	T	W	T	F	S
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3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

**January 1996**

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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

**February 1996**

S	M	T	W	T	F	S
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

**March 1996**

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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

**April 1996**

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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

**May 1996**

S	M	T	W	T	F	S
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**June** 1996

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9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

**July** 1996

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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

**August** 1996

S	M	T	W	T	F	S
			1	2	3	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

**September** 1996

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

**October** 1996

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

**November** 1996

S	M	T	W	T	F	S
			1	2		
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

# Academic Calendar

## 1996 SUMMER SEMESTER

- May 31 ..... Day and Evening Registration  
 June 3 ..... Classes Begin  
 June 6 ..... Last Day for Full Refund of Fees  
 June 10 ..... Add/Drop Fees and Late Registration Fees Begin  
 June 20 ..... Withdrawal After This Date No Refund of Fees  
 July 4 ..... 4th of July Holiday  
 July 11 ..... Last Day to Withdraw From a Class with a "W"  
 July 22 ..... Last Day for Complete Withdrawal from College with all "W's"  
 July 24 ..... Last Day of Classes  
 July 22-25 ..... Final Examinations (Evening Classes)  
 July 25 ..... Final Examinations (Day Classes)

## 1996-1997 FALL SEMESTER

- August 15 ..... Day and Evening Registration  
 August 16 ..... Faculty Study Conference & Day Registration  
 August 19 ..... Classes Begin  
 August 23 ..... Last Day for Full Refund of Fees  
 August 26 ..... Add/Drop Fees & Late Registration Fees Begin  
 September 2 ..... Dismissal for Labor Day  
 September 20 ..... Withdrawal After This Date No Refund of Fees  
 October 18 ..... Last Day to Withdraw from a Class with a "W"  
 November 27-29 ..... Dismissal for Thanksgiving Holiday  
 December 2 ..... Classes Resume  
 December 6 ..... Last Day of Classes  
 December 2 ..... Last Day for Complete Withdrawal from College with all "W's"  
 December 9-13 ..... Final Examinations  
 December 13 ..... End of Semester

## 1996-1997 SPRING SEMESTER

- January 9 ..... Day and Evening Registration  
 January 10 ..... Faculty Study Conference & Day Registration  
 January 13 ..... Classes Begin  
 January 17 ..... Last Day for Full Refund of Fees  
 January 20 ..... Add/Drop Fees & Late Registration Fees Begin  
 February 14 ..... Withdrawal After This Date No Refund of Fees  
 February 19 ..... Senior Assessment Day  
 March 14 ..... Last Day to Withdraw from a Class With a "W"  
 March 17-21 ..... Spring Break  
 May 5 ..... Last Day for Complete Withdrawal from College with all "W's"  
 May 7 ..... Last Day of Classes  
 May 8 ..... Reading Day — No Finals  
 May 9-15 ..... Final Examinations  
 May 15 ..... End of Semester  
 May 17 ..... Commencement  
 May 19-30 ..... Intersession

**December** 1996

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

**January** 1997

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**February** 1997

S	M	T	W	T	F	S
			1	2	3	4
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

**March** 1997

S	M	T	W	T	F	S
			1	2	3	4
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

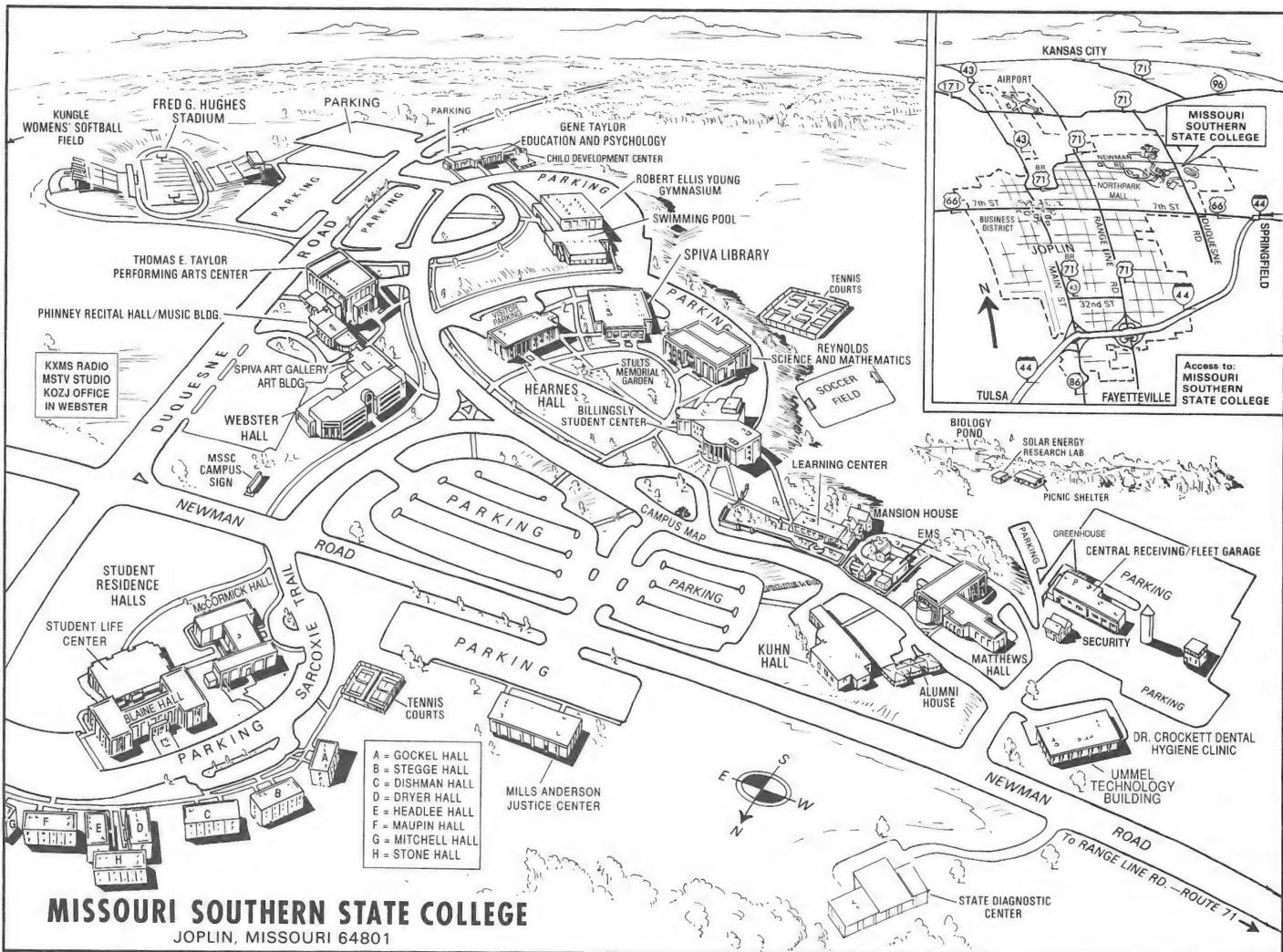
**April** 1997

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

**May** 1997

S	M	T	W	T	F	S
			1	2	3	4
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

# 16 / Directory/Map



## Building Directory

### Alumni House

Alumni/Development Office  
Missouri Southern Foundation

### Anderson Justice Center

Firing Range  
Law Enforcement  
Regional Crime Laboratory

### Art Building

Art Department  
Spiva Art Gallery

### Billingsly Student Center

Bookstore  
Food Service  
Meeting/Game Rooms  
Career Planning/Placement  
Public Information Office  
Student Activities, Student Services  
Ticket Office

### Biology Pond

Picnic Pavilion  
Solar Energy Laboratory

### Campus Directory

### Emergency Medical Services Annex

Dean of Technology  
Emergency Medical Technology  
Paramedic

### Hearnes Hall

Administrative Offices  
Admissions, Financial Aid

Counseling  
English Department  
Registrar

### Hughes Stadium

### Kuhn Hall

### Kungle Softball Field Maintenance Office

Central Receiving  
Campus Security  
Greenhouse

### Matthews Hall

Business Administration  
Computer Science  
Matthews Hall Auditorium

### Mission Hills Mansion Complex

Learning Center

### Music Building

Phinney Recital Hall

### Reynolds Hall

Biology, Mathematics,  
Physical Sciences Departments

### Soccer Field

### Spiva Library

### Student Life Center

Computer Labs  
Meeting Rooms  
Recreational Facilities

### Student Residence Halls

### Stults Memorial Garden

### Taylor Hall

Child Development Center  
Education Department  
Psychology Department

### Taylor Performing Arts Center

Theatre Department

### Ummel Technology Building

Drafting/Design  
Dental Hygiene Departments  
Manufacturing Technology

### Tennis Courts

### Veterans' Memorial

### Webster Hall

Communications Department  
Continuing Education  
Honors Program  
KOZJ Office  
KXMS Radio

MSTV Studio  
Social Science Department  
Webster Hall Auditorium

### Young Gymnasium

Physical Education Department  
Sports Information Office  
Swimming Pool/Racquetball  
Varsity Athletics

### P - Parking

### VP - Visitor Parking

**Joe Becker Stadium**, home of the Baseball Lions, is on 3rd and High Streets.

## Correspondence

Missouri Southern State College • 3950 E. Newman Road • Joplin, Missouri 64801-1595  
(417) 625-9300

**1-800-606-MSSC**

(admission, financial aid, athletics, housing)

Academic Affairs . . . . .	625-9394	Library . . . . .	625-9386
Admission of students . . . . .	625-9378	Loans . . . . .	625-9325
Athletics (men) . . . . .	625-9317	Missouri Southern Foundation . . . . .	625-9396
Athletics (women) . . . . .	625-9316	MSTV . . . . .	625-9375
Alumni affairs . . . . .	625-9396	News/publications . . . . .	625-9399
Bookstore . . . . .	625-9380	Orientation . . . . .	625-9542
Business affairs . . . . .	625-9728	Physical Plant . . . . .	625-9331
Cafeteria . . . . .	625-9546	Purchasing . . . . .	625-9388
Career/Placement services . . . . .	625-9343	Safety & Security . . . . .	626-2222
Catalog & bulletins . . . . .	625-9378	School of . . . . .	
Child Development Center . . . . .	625-9360	Arts & Science . . . . .	625-9385
Continuing Education . . . . .	625-9384	Business Administration . . . . .	625-9319
Counseling . . . . .	625-9324	Education & Psychology . . . . .	625-9314
Credit evaluations/transcripts . . . . .	625-9389	Technology . . . . .	625-9328
Crime Laboratory . . . . .	625-9382	Sports Information . . . . .	625-9359
Dental Hygiene Clinic . . . . .	625-9379	Student Activities . . . . .	625-9320
Evening session . . . . .	625-9394	Student employment . . . . .	625-9325
Faculty appointments . . . . .	625-9394	Student organizations . . . . .	625-9320
Financial aid . . . . .	625-9325	Student Services . . . . .	625-9392
Gifts & annuities . . . . .	625-9500	Summer session . . . . .	625-9394
Grammar Hotline . . . . .	624-0171	Swimming & Racquetball . . . . .	625-9390
Honors Program . . . . .	625-9686	Testing . . . . .	625-9324
Housing . . . . .	625-9522	Ticket Office . . . . .	625-9366
KXMS-88.7 . . . . .	625-9356	Veterans affairs . . . . .	625-9529
Learning Center . . . . .	625-9373		

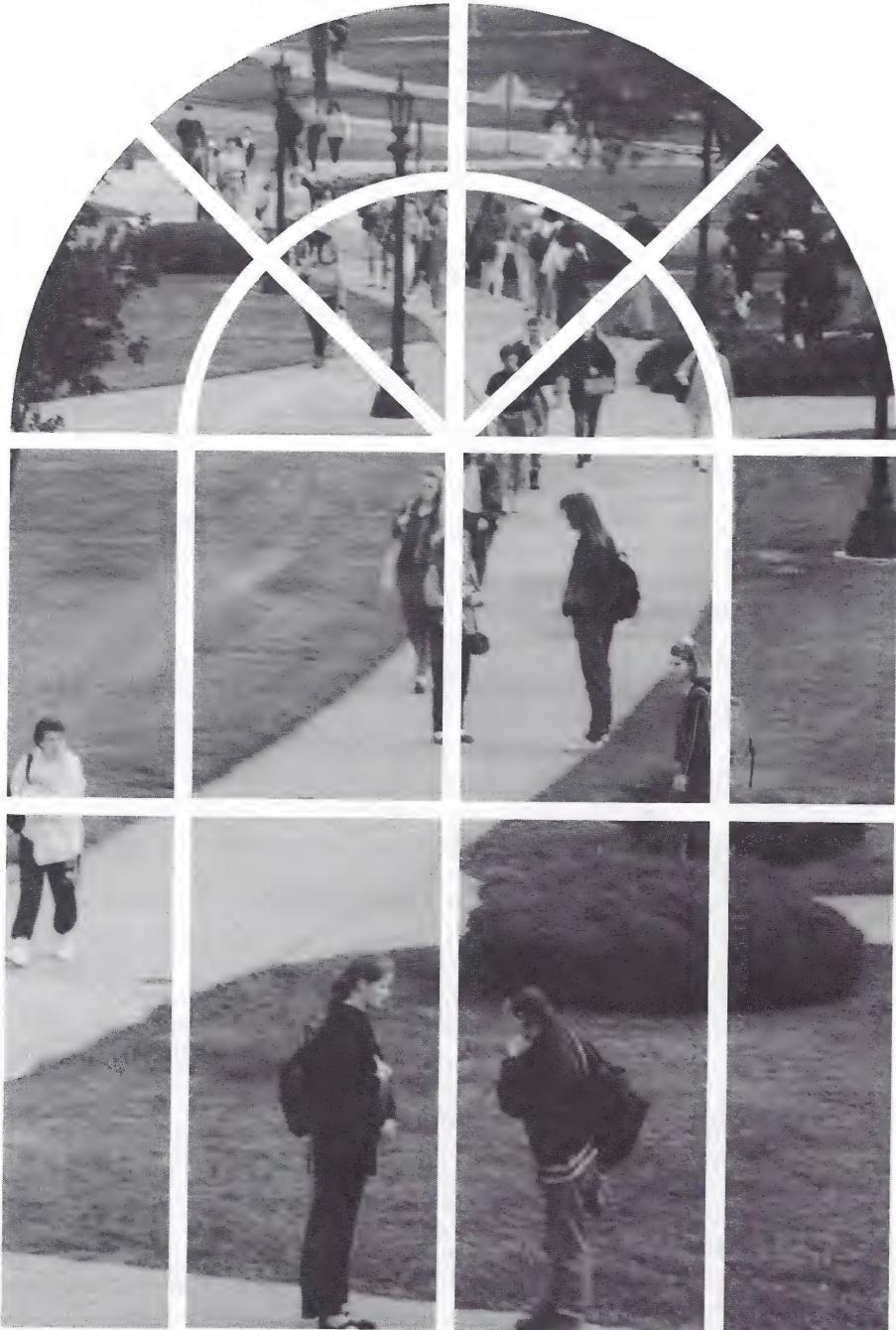
**Additional areas** (for academic department numbers, see department information in each school)





# *Student Services*

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**Financial Aid  
Policies & Regulations  
Counseling Services  
College Orientation  
Student Activities  
Career Planning & Placement  
Residence Halls  
Student Health Services  
Intercollegiate Athletics  
Student Conduct**

# Student Services

## Vice President for Student Services

Glenn D. Dolence

*Billingsly Student Center 211, 625-9531*

**Staff** Allman, Beard, Binns, Blanford, Caldwell, Carlisle, Carnahan, Craig, Deem, Dobson, Foster, Frazier, Frerer, Gilbert, Gipson, Hicklin, Hill, Humphrey, Karst, Loome, Oakes, Sadler, Yazell

## Purpose and Objectives

Because all education does not take place in the classroom, the Student Services staff provides a wide variety of support services for students at Missouri Southern. The department includes the Student Services Central Office, Admissions, Financial Aid, Counseling Services, Career Planning and Placement, College Orientation, Residence Life, Student Activities, Student Health Services and Intercollegiate Athletics. (For admission requirements and procedures, see page 36 under Academic Regulations.)

With the objective of helping students to fully develop and achieve their educational goals, professional staff members are trained to support students by:

1. providing a campus climate in student residence and campus affairs that is conducive to academic achievement;
2. providing services which will assist in the self-development of all students and promote the understanding of their own purposes for being in college;
3. providing, through student government, student organizations and other activities, both an opportunity to practice democratic living, with both rights and responsibilities, and a chance to learn to work effectively and cooperatively with others;
4. providing an opportunity for those individuals who are capable of profiting from higher education by providing financial assistance, when necessary, in the form of scholarships, grants, loans and employment;
5. helping each student develop a sense of individual responsibility and self-discipline;
6. interpreting college objectives, policies and rules to students and communicate student attitudes, opinions and activities to the faculty, administration and general public;

7. providing student health services that meet the emergency and temporary medical needs of all students;
8. providing an opportunity for students to gain information about the world of work and job opportunities; and
9. providing assistance and direction in matching student qualifications with job requirements.

## Financial Aid

*Hearnes Hall 114, 625-9325*

Missouri Southern participates in a variety of aid programs to assist qualified students who would otherwise not be able to attend college. These funds – from private, institutional, state and federal sources – are coordinated to meet the individual student's need. There are programs based on various criteria such as financial need, performing ability and academic excellence. Each program has requirements for maintaining the award and students must meet satisfactory academic progress guidelines for continued assistance. Foreign students are required to present a financial statement certifying they have sufficient funds to pay for all educational expenses. Information in this catalog regarding financial aid is subject to change without notice. Missouri Southern reserves the right to adjust a student's financial aid package to reflect a true change in the student's financial situation. Financial aid awards are subject to changes in institutional policy and State and Federal regulations.

## How to Apply for Financial Aid

1. All applicants must complete the Free Federal application for student aid. MSSC prefers the electronic application. Application priority date is February 15; however, awards will be made until all funds are expended. This application will generate a Pell Grant and if applicant is eligible, will be used to apply for work and loans, Missouri Grant and a financial aid report.

Students who have not submitted all necessary financial aid documentation by August 1 for the Fall term and January 1 for the Spring term will be expected to pay their fees in full by the deadlines set out in this catalog. Payment deferments will only be available to those students who meet with the application deadlines and have provided all required documentation for eligibility determination.

2. Processing applicants should bring or mail all copies of the Federal Pell Grant Student Aid Report to the Financial Aid Office as soon as they receive the document.

<b>Scholarships</b>	<b>Who Is Eligible</b>	<b>How Much</b>	<b>How to Apply</b>
<b>Honors Program</b>	Students who score 28 composite or above on the ACT Placement Test or 3.5 high school GPA	Full tuition and fees for ACT scores that fall within the 99th percentile	Send test scores to Director of Honors Program and request application
<b>President's Scholarships*</b>	First and second ranking students in each accredited high school in the College's service area with an ACT composite score of 21 or higher	1995-96 \$1200.00	Upon recommendations of high school counselor; scholarship is validated when recipient enrolls as a freshman
<b>Regents' Scholarships*</b>	Awarded directly to high school graduates who score 26 composite score or higher on the ACT and have a 3.0 high school GPA	1995-96 \$800.00	Have ACT Placement Test scores sent to Counseling Office
<b>Deans' Scholarships*</b>	High school graduates who rank in the upper 30% of their graduating class and have a composite ACT of 23 or above. Can not be used in conjunction with the President's, Regents' or Honors Program Scholarships.	1995-96 \$610.00	Contact your high school counselor
<b>Non-Resident Service Area Scholarships</b>	Students graduated from a high school outside of Missouri, but within the college service area. ACT composite of 23 or above and meet admissions criteria.	Equal to the difference between resident and non-resident fees up to 15 hours.	Contact Financial Aid Office
<b>Junior College Transfer Scholarships*</b>	Junior college graduates with a 3.5 GPA and students who have completed 55 hours or more with a 3.5 GPA at a junior college.	1995-96 \$800.00	Complete a Junior College Transfer Application
<b>Non-Resident Junior College Transfer Scholarships</b>	Attended junior college outside of Missouri but within the college service area and successfully completed 55 hours and a 3.5 GPA at the above junior college.	Equal to the difference between resident and non-resident fees up to 15 hours.	Contact Financial Aid Office
<b>Patron's Scholarships</b>	Criteria established by individual donors	Awards range from \$50 to \$2500 as determined by individual donors	Applications available in Financial Aid Office; application deadline March 1
<b>Performing Aid Awards</b>	Students who have demonstrated success or high potential in forensics, journalism, music, mathematics, theatre, baseball, football, golf, softball, volleyball, basketball, soccer, tennis, etc.	Awards range from \$50 to full scholarship consisting of tuition, fees, room and board	Apply directly to the director or sponsor of particular activity

\*Students receiving President's, Regents', Deans' and Junior College Transfer scholarships must enroll in and complete at least 12 hours each semester with a 2.5 GPA the first semester and a 3.0 GPA the following semesters.

## 22 / Financial Aid

Grants	Who Is Eligible	How Much	How To Apply
<b>Federal Pell Grant</b>	Federal Aid program based on financial need. All students should apply.	Grants range from \$200 to \$3700 depending on where the student lives and educational costs.	Complete an approved need analysis; MSSC prefers the electronic application, priority date February 15.
<b>Missouri Student Grant</b>	State funded program for Missouri residents; based on financial need.	Maximum grant not to exceed one-half the cost of tuition and fees.	Complete an approved need analysis. Deadline April 30.
<b>Federal Supplemental Educational Opportunity Grants</b>	Students with exceptional financial need.	Grants range from \$100 to \$4000 per academic year.	Complete an approved need analysis. MSSC prefers the electronic application, priority date February 15.
<b>COPHE Teachers Scholarship</b>	Graduating H.S. seniors	\$1000	COPHE Scholarship Application
<b>Missouri Teacher Education Scholarship</b>	Upper 15% of graduating class or score in the upper 15% on recognized exam.	\$2000 per year	Missouri Teacher Education Scholarship application available in the Financial Aid Office.
<b>Robert C. Byrd's Honors Scholarship</b>	Graduating H.S. seniors	\$1500	Byrd Scholarship Application
<b>Missouri Higher Education Academic Scholarship</b>	Graduating H.S. seniors	\$2000	Missouri Higher Education Academic Scholarship Application

Employment Programs	Who is Eligible	How Much	How to Apply
<b>Federal Work Study Program</b>	Federal Aid program based on financial need. All students should apply.	Minimum wage, weekly hours based on need.	Complete an approved need analysis. MSSC prefers the electronic application, priority date February 15.
<b>Student Help Program</b>	On-campus employment for students who are qualified to fill job openings.	Minimum wage, weekly hours depend on operational need.	Apply to Student Employment Office or to individual departments on campus.
<b>Job Location &amp; Development</b>	All students unless other aid criteria conflicts.	Minimum wage and up.	Fill out MSSC Employment Application, make an appointment.

<b>Loans</b>	<b>Who Is Eligible</b>	<b>How Much</b>	<b>How to Apply</b>
<b>Federal Perkins Loan</b>	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations.	Need to \$3000 per year, Aggregate total \$15,000	Complete an approved need analysis. MSSC prefers the electronic application; priority date February 15
<b>Federal Direct Stafford Loans - subsidized</b>	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations.	1 year up to \$2625 2 years up to \$3500 3 years up to \$5500 4 years up to \$5500 Aggregate total \$23,000	Application and special instructions available in Financial Aid Office. Complete an approved need analysis. MSSC prefers the electronic application; priority date February 15.
<b>Federal Direct Stafford Loans - unsubsidized</b>	Same as subsidized Federal Stafford Loans.	Cost of education minus other aid equals eligibility for independent students. Dependent students are restricted to the above amounts.	
<b>Federal Direct PLUS</b>	Regular student must apply for Federal Aid programs.	Cost of education minus other aid equals eligibility.	

<b>Other Assistance</b>	<b>Who is Eligible</b>	<b>How Much</b>	<b>How to Apply</b>
<b>Academic Management Service</b>	All students are eligible for this monthly budget plan which allows payment of fees over a 10-month period and provides insurance coverage for the person making the payments.	Ranges from \$25 to full cost of tuition, fees, room and board; or the difference between total direct educational costs and other financial aid awarded.	Applications available in the Financial Aid Office
<b>Veterans' Administration Benefits</b>	Veterans eligibility is determined by when the veteran entered military service, length of duty and several other factors.	Amount varies depending on chapter and enrollment status.	Contact: Veterans' Administration Officer, Veterans' representative on campus or Veterans' Administration Regional Office
<b>Bureau of Indian Affairs</b>	Students who can prove they are at least one-fourth Indian blood.	Awards range from partial tuition to full tuition and fees.	Contact: Bureau of Indian Affairs, Higher Education Office, Federal Building Room 300, Muskogee, OK 74001
<b>Vocational Rehabilitation</b>		Awards range from \$25 to full tuition, fees, room and board.	Contact: Vocation Rehabilitation Office, 1609 East 20th, Joplin, MO 64801

## **24 / Financial Aid**

3. Applicants selected for verification must bring or mail a copy of their own and if under 24, their parent's 1040 Income Tax Form to the Financial Aid Office. These signed documents must be on file before any award will be processed.
4. Applicants must indicate on their application the type of assistance for which they wish to apply. In addition, applicants for PLUS loans must complete a separate loan application.
5. Applicants for Patron Scholarships must complete a scholarship application and return it to the Financial Aid Office by March 1.
6. Transfer students must request a financial aid transcript for each college previously attended.
7. Applicant for performing awards should contact the director of the program in which they wish to participate.
8. Applicants for special programs should contact the Financial Aid Office for instructions.

## **Policies and Regulations**

**Academic Standards:** The student's academic progress will be determined in May of each year. However, if minimum standards of hours or grade point average are not met in the fall semester, the student automatically will be placed on financial probation for the spring semester. If satisfactory progress is made during the fall, but not during the spring semester, the student will be allowed one semester on probation to make up all deficiencies. After the probationary semester, grades will be checked and the number of courses will be verified to see if a minimum standard has been completed. If satisfactory progress is not maintained, the student will be placed on financial suspension until the required GPA is reached or course work is completed.

All financial aid recipients must meet the appropriate GPA as published in the College Catalog, (page 47, Standards of Progress Toward Graduation). After the second year, federal regulations require the student to have a cumulative "C" average or 2.0 GPA or, in cases where a higher GPA is required for graduation, the student must meet that higher GPA. Students receiving financial aid must meet federal guidelines. If the GPA falls below the minimum standard of progress, the student will be placed on probation.

The maximum time in which a student is eligible to receive financial assistance is as follows:

Degree	Maximum Semesters of Aid Eligibility		
	Full-Time	3/4-Time	Half-Time
Bachelor	12	18	24
Associate	6	9	12
Certificate	3	5	6

Note: It is automatically assumed that students who do not indicate a degree program are pursuing a baccalaureate degree. All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

Category Completed	Hours per Semester	Hours per year
Full-time	12 or more	21 hours per year
3/4-time	9 to 11	15 hours per year
Half-time	6 to 8	9 hours per year

Note: In calculating the minimum hours completed per year, the following will not be counted: incompletes, repetitions, non-credit remedial courses, audited courses and withdrawals. However, if withdrawal from a class results in a change in categories, the originally required payment hours must be completed. If the minimum required hours are not completed, the student will be placed on probation. Students who fail to complete the minimum required hours during the academic year (fall and spring) or whose grades are below the minimum, may make up their deficiencies in summer school.

All aid will terminate immediately under the following situations:

1. withdrawal from all classes;
2. failure to meet special requirements of academic progress imposed by the Financial Aid Committee; or
3. default on any federally funded student loan or over payment of any Title IV funds;
4. all "F" grades in a semester.



## Appeal Procedures

Students may appeal the suspension of aid to the Director of Financial Aid. After reviewing the file, the Director may reinstate the aid if a course failure was due to medical circumstances, change of degree, change of major or circumstances beyond control.

If the Director denies the appeal, an appeal may be made to the Financial Aid Committee. The student must submit in writing an explanation of any special circumstances in addition to the ones listed that the committee should consider in determining whether any aid should be reinstated. After reviewing student records and written comments, the committee will give written notification of its decision. The notification will state whether or not the aid should be continued and the requirements for reinstatement. The decision of the Financial Aid Committee is final.

It is assumed that transfer students are making satisfactory academic progress when they enroll at Missouri Southern. They will be evaluated at the end of their first full academic year.

Students may continue to receive assistance under the following mitigating circumstances: meeting standards or on probation under old policy, medical problems, change of degree objective, change of major or other extenuating circumstances. The Director will determine the validity of these circumstances, provided there is appropriate documentation. Under these circumstances, students need not go through the appeal process.

For further information concerning academic progress, see the Financial Aid Office Procedure Manual in the Financial Aid Office.

## Other Duties and Responsibilities of Financial Aid Recipients

Students must report the following changes to the Financial Aid Office:

1. withdrawal from school,
2. a significant change in income,
3. added or dropped classes during the semester,
4. a name change,
5. change of address or change of parents' address,
6. transfer to another college.

Work Study recipients must contact the Student Employment Office for job placement within five days of the beginning of the semester.

Missouri Southern operates on a financial aid data base system which processes applications and awards electronically. It is to the applicant's advantage to use forms and lenders which are capable of processing data by teletransmission. The electronic system requires student signatures on student aid reports, documentation, award letters, loan applications and promissory notes before funds can be processed.



Financial aid funds will be credited to the student account. Once all fees have been satisfied, monies awarded that may go directly to the student will be mailed by check to the address provided at the time of registration. Checks are available at the end of the second week and thereafter every two weeks throughout the semester. Student employment and other checks must be picked up in person at the Business Office upon notification of their availability.

Veterans must sign up for veterans' benefits at the beginning of each semester.

## Counseling Services

Hearnes Hall 114H, 625-9324

The primary goal of Counseling Services is to promote the student's personal development and psychological well-being. Services are provided for individuals with educational - academic and personal - social concerns. Experienced professional staff members provide individual counseling for academic, career, and personal concerns as well as offer assessment, a variety of tests, inventories, and referral services.

The Counseling Center adheres to the American Counseling Association (ACA) and the American Psychological Association (APA) professional codes of ethics in providing all services. Such services are strictly confidential. No information will be released without the informed written consent of the client.

## Academic Advisement

Students who have not declared an academic major area of study will be assigned an advisor from the staff in the Counseling Center. Prior to enrolling for each semester, undeclared majors need to make an appointment with an advisor in the Counseling Center.

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### **Career Counseling**

Students who are uncertain of their major are encouraged to make an appointment with a career counselor to identify, understand and explore academic/career related concerns. Interest, ability, and personality inventories are available as well as a career library to assist in the career decision making process.

The DISCOVER program and MO-VIEW, computer based career guidance systems, are also available and designed to assist students in clarifying values, assessing competencies and interests, making decisions, securing information on occupations, educational opportunities, and selecting appropriate career development strategies.

### **Testing Services**

Missouri Southern is a national testing center for the following examinations:

1. ACT (Placement test for college entrance)
2. NTE (National Teachers Exam)
3. EESN (Entrance Examination for Schools of Nursing)
4. DHAT (Dental Hygiene Aptitude Test)
5. MAT (Miller's Analogy Test for graduate school)
6. CLEP (College Level Examinations Program)

The CLEP (College Level Examination Program) is administered by appointment. The student must contact the Counseling Center to register prior to the testing time/day. This program is designed to allow students to receive, upon attaining a passing grade, proficiency credit for core requirements and other freshman/sophomore programs. The Counseling Center also provides proctors and a testing room for students taking correspondence courses from other accredited institutions. Appointments must be made prior to taking the test. A fee will be charged for each test administered.

All students whose native language is not English, who wish to transfer with 24 hours or more and do not have a TOEFL score of 535, may take, by appointment, the Michigan Test of English Language Proficiency. If proficiency on the Michigan Test is not achieved, the applicant must wait 60 days to retake the test.

The Counseling Center also gives the GED (General Education Development High School Equivalency Test) as a service to the people of Southwest Missouri who were unable to complete their high school education. The person making an acceptable score on the GED test will receive a high school equivalency certificate from the Missouri State Department of Education. Applications for GED testing are available from the Counseling Center.

### **Non-Traditional Student Program**

Students who have been out of school for several years often have unique concerns about returning to college. Workshops to ease the transition to college are offered periodically. A "Return To Learn" course is offered each semester as the orientation course for returning students.

### **College Orientation**

Hearnes Hall 115, 625-9542

To assist all new students in the transition to college life, Southern has designed an orientation program to help them become acquainted with college services, facilities, and policies as well as to introduce helpful social and academic survival skills.

This eight-week course is offered each semester, including the summer. Special orientation courses are designed for transfer, honors, athlete, and non-traditional students. Career development, library skills, study skills, personal issues, and the assignment of an academic adviser are among the major objectives covered in this course.

The program operates in small group settings and is facilitated by peer leaders who have successfully completed a Leadership Training class. There is also a nine-day summer orientation/registration program called FRESH START. Designed for entering students, FRESH START incorporates the efforts of peer leaders as well as faculty advisors to assist in the registration for fall classes and the transition from high school to college.

### **Veteran Affairs**

Veteran Affairs assists eligible students and dependents in their certification to receive VA educational benefits. The veteran student receives assistance in submitting the required VA forms, career/personal counseling, and tutorial services. In order for eligible students to receive VA educational benefits, they must be certified for each enrollment period and the Counseling Center notified of any changes in enrollment.





## Other Services

**Groups/Couples/Family:** (a) Groups are developed to provide a supportive structured environment to promote personal growth and skill development by focusing on particular concerns; such as, adjustment to college life, self-esteem, eating disorders and sexual abuse. (b) Couples or families may work with a counselor in order to identify, understand and resolve personal and relationship difficulties.

**Emergency:** Crisis intervention is provided to deal with situations requiring immediate attention.

**Outreach:** Special programs and workshops designed to define and/or prevent problems and improve the quality of college life are presented. These offerings provide information, techniques, and skills relevant to specific topics of interest; such as, stress management, test anxiety, self-esteem, and building successful relationships.

**Consultation and Referral:** The Center's staff is available for consultation by the administration, faculty, staff, and students. The staff also will facilitate referrals to outside agencies and professionals as needed.

## Student Activities

*Billingsly Student Center 102, 625-9346*

The Coordinator of Student Activities works closely with other Student Services personnel and the Campus Activities Board in providing a variety of services for students, faculty and staff at Missouri Southern.

Campus activities are scheduled in the Student Activities Office and reservations for space and food service in Billingsly Student Center are made in this office. The office also handles ticket sales for off-campus activities and entertainment.

## Campus Activities Board (CAB)

The Campus Activities Board, a student organization supported by student activity fees, has the responsibility for programming social, educational and recreational activities for the entire college community. Students may volunteer to serve on one of the eight CAB committees: concerts, cultural affairs, coffeehouse, dances, movies, speakers, special events, and tour and travel. Interested students may apply in the CAB office on the lower level of Billingsly Student Center.

## Student Government

The Student Senate serves as the governing body for students and acts as a liaison between the faculty and the student body. The responsibility for student government rests not only with the student officers, boards and committees but also with each member of the student body. The Student Senate is made up of nine senators from each class, who are elected in the fall, and the executive officers, who are elected in the spring. The Student Senate is funded from student activity fees.

## Career Planning and Placement

*Billingsly Student Center 207, 625-9343*

Career Planning and Placement assists students and alumni in the development of employability skills necessary to conduct a successful job search and in the location of full-time employment. On-campus interviews are scheduled for seniors and alumni with representatives from business, industry, government and educational institutions. Students are encouraged to visit Career Planning & Placement to take advantage of on-campus interviews, vacancy listings, career days, workshops, mock interviews and assistance in preparing resumes.

Career Planning & Placement also maintains a career library which contains information on major businesses, industries and educational institutions. Information about graduate schools is available in this library along with information to aid students in choosing a career and in the job search.

## Residence Halls

*Billingsly Student Center 212, 625-9522*

The Missouri Southern on-campus residence requirement is as follows: "All freshmen and sophomores under the age of 21, are required to live in the Missouri Southern residence halls to the extent space is available, unless they are married, live with their parents, live with a relative or are excused by the Dean of Students."

The College provides air conditioned residence hall accommodations and meals for approximately 500 full-time students. Concerned with the total needs of the students, the College maintains a safe and comfortable place to live and an adequate physical environment as well as opportunities for learning. The atmosphere in the residence halls contributes significantly to the students' personal growth and maturity.



The residence halls are staffed by two full-time professional resident directors and 18 paraprofessional staff assistants. The governing body for resident students is the Residence Hall Association (RHA) which provides educational, social and athletic programs for the students and acts as a liaison between resident students and the College administration.

Residence hall rooms are fully furnished except for linens and personal items. Cable TV rooms, study lounges, recreational areas, personal computers, vending machines, coin-operated laundry facilities and free local telephone service with voice mail and individual access codes are in the residence halls.

Resident students also are entitled to food service. Twenty meals a week are served in the Student Center Cafeteria.

To reserve a room in a college residence hall, a prospective student should request an Application Contract for Room and Board Accommodations from the Missouri Southern Residence Life Office. The completed Application Contract should be returned to this office with a \$100 security deposit. The deposit is retained by the College as long as the student is in residence and refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract, which is a combined contract for room and meals, is effective for the entire academic year (fall and spring semesters) or for the remaining portion of the academic year if entered into after the beginning of the fall semester. Detailed terms will be found on the contract form.

The College is not responsible for the loss of or damage to, any personal property of students.

For detailed rules and regulations governing residence hall living at Missouri Southern, contact the Residence Life Office, Room 211, Billingsly Student Center.

## Student Health Services

Kuhn Hall 306, 625-9323

The Student Health Center, is staffed with a full-time registered nurse and a physician who holds two clinics a week on campus. Appointments to see the nurse or the physician Monday through Friday from 8 a.m. to 4 p.m. can be made by contacting the Student Health Center. All currently enrolled students are eligible for treatment at the Center. Some of the services offered are: first aid and injury care, allergy injections, TB skin testing, flu shots (in season) and screening for certain illnesses. Most services are free; however, students are expected to pay for laboratory, x-ray, emergency room, hospital services, prescriptions and ambulance service. The Health Center maintains files on current students, including medical history and immunization records. Recommendation and referral to community or campus resources are also part of student health services.

## Communicable Diseases

Students must have proof of immunization, including two doses of measles/rubella vaccine, on file in the Student Health Center. When a communicable disease comes to the attention of the College, whether student, faculty or staff member, the College's physician and nurse will assume responsibility for conducting a thorough review based upon the best medical and legal information available. Students who have not been properly immunized or who have not had these diseases may be banned from College property in the event of an outbreak on campus. Any actions taken will respect the confidentiality of the individual as well as the individual's welfare and that of the College community.

A voluntary accident and sickness insurance plan for students is available from the Student Services Office, Room 211, Billingsly Student Center.

## Smoking and Tobacco Use Policy

The Board of Regents of Missouri Southern State College prohibits smoking and tobacco use of any kind. Tobacco products are not permitted in any campus buildings. Smoking and other tobacco usage is only permitted outside of buildings.

## Intercollegiate Athletics

Young Gymnasium 122 (men), 625-9317

Young Gymnasium 215 (women), 625-9316

Missouri Southern's athletic program is based on the concept that intercollegiate athletics are an integral part of the total educational process, subject to the same aims, policies and objectives as other departments. The College's sound athletic program provides the benefits of athletic participation while assuring that athletes fulfill their responsibility as students. Though the primary concern is that the athletic program further the educational process, the College must be aware of the public attention that focuses on the institution through

intercollegiate sports. While the public attention and the entertainment aspects of intercollegiate sports must be recognized, they are secondary in importance to the role of athletics in the total educational program.

The staff of the athletic department provides quality programs for students who express an interest in various sports. Male and female students have similar opportunities to participate in athletic activities with appropriate support.

The College is a member of the Missouri Intercollegiate Athletic Association and the National Collegiate Athletic Association, Division II. College teams compete on the intercollegiate level in baseball, basketball, football, golf, soccer, softball, tennis, volleyball, cross country and track.

## Student Conduct

In order to provide the best possible environment for personal and intellectual growth, the College has established regulations to guide student conduct. A summary of these rules and regulations is found in the Student Handbook which may be obtained from the Student Services Central Office, Room 211, Billingsly Student Center.

## Drug and Alcohol Prevention Program

Pursuant to the Drug-Free Schools and Communities Act Amendments of 1989, Missouri Southern State College is required to establish a drug and alcohol prevention program for its students. The College's program is described below. A biennial review of this program will be done to determine its effectiveness, to implement changes to the program if they are needed and to ensure that the College's disciplinary sanctions are consistently enforced.

**Substance Abuse Policy:** Students are prohibited from using alcoholic beverages and illegal drugs on College-owned or controlled property and at College-sponsored or supervised activities. Irresponsible alcohol or other drug use off campus resulting in disorderly conduct on campus also is not acceptable. Any student of Missouri Southern State College found to have manufactured, dispensed, possessed or used a controlled substance in violation of the Substance Abuse Policy of this College will be subject to discipline in accordance with College policy and reported to local, state or federal law enforcement authorities for criminal prosecution. Criminal prosecution for these acts could lead to a conviction and such a conviction could result in a sentence imposing a monetary fine, imprisonment in a state or federal penitentiary or both.

**Health Risks:** Specific serious health risks are associated with the use of illicit drugs and alcohol. Some of the major risks:

**Alcohol and other depressants (barbiturates, sedatives and tranquilizers):** addiction, accidents as a result of impaired ability and judgment, overdose when used with other depressants, damage to a developing fetus, heart and liver damage.

**Marijuana:** addiction, panic reaction; impaired short-term memory; increased risk of lung cancer and emphysema, particularly in cigarette smokers; impairment of driving ability.

**Cocaine:** addition, heart attack, seizures, lung damage, severe depression, paranoia, psychosis. Similar risks are associated with other stimulants, such as speed and uppers.

**Hallucinogens (acid, LSD, PCP, MDMA, etc.):** unpredictable behavior, emotional instability, violent behavior, organic brain damage in heavy users, convulsions, coma.

**Narcotics (heroin, Demeral, morphine, Codeine, etc.):** addiction, accidental overdose, risk of hepatitis and AIDS from contaminated needles.

**Inhalants (gas, aerosols, glue, nitrites, etc.):** loss of consciousness, suffocation, damage to brain and central nervous system, sudden death, nausea and vomiting, nosebleeds, impaired judgment.

**Resources:** A variety of resources exist for drug or alcohol counseling, treatment or rehabilitation programs. A few are listed inside the front of the *Student Handbook*. For more detailed information concerning these resources and others available from the College and/or community agencies, students may contact the Counseling Center (417-625-9595) or the Student Services Office (417-625-9392). Such referrals will respect individual confidentiality.

A main objective of the drug and alcohol prevention program is to encourage healthy attitudes and behaviors on the part of all students and responsible decisions about alcohol/drug use. Another objective is to provide students in certain high risk groups (freshman, Greeks, athletes, residence hall students, etc.) with specific and up-to-date information regarding the long-and-short-term effects of alcohol/drug use. A final objective is to provide students with the necessary skills to help them carry out the decisions they have made in regard



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to their use or nonuse of alcohol/drugs, and how to effectively handle certain "high pressure" situations.

To meet the above objectives, information and assistance is provided to students in several ways. First, alcohol and drug films are shown and programs conducted in all orientation classes, which are required for all new students. Additional alcohol and drug information is presented in other academic classes, including HPER 103, Lifetime Wellness. Pamphlets about alcohol and drug use are distributed each semester in residence hall rooms and in the Student Center. Special alcohol and drug training is provided annually for residence hall staff and orientation leaders.

The athletic department provides a program for varsity athletes. Special alcohol and drug programs are presented throughout the year. Active drug testing is done. A committee of counselors, teachers and clergy are available to assist varsity athletes.

The Student Services Office, Campus Activities Board and the Residence Hall Association provide alcohol and drug programs throughout the year for all students.

### **Sexual Harassment Policy**

Missouri Southern State College is committed to the principles of equal opportunity and does not discriminate on the basis of race, age, sex, religion, national origin or handicap. The U.S. Equal Employment Opportunity Commission has issued guidelines: It is the policy of Missouri Southern State College that no member of the campus community may sexually harass another individual. Sexual harassment defined as the use of one's authority or power to coerce another into unwanted sexual relations or to punish another for his/her refusal, or the creation by a member of the college community of an intimidating, hostile or offensive working education environment through repetitive verbal or physical conduct of a sexual nature, shall be a violation.

Any student with a sexual harassment complaint may contact the Vice President for Student Services or the Dean of Students. If, after an informal investigation, the matter is not resolved, the student may resort to the regular grievance procedure.

### **Campus Security Act Policies and Procedures**

1. All campus crimes should be reported immediately to Campus Security. Campus security officers are available on campus 24 hours of every day. The number to call for on-campus personnel is extension 2222. Off-campus personnel should call 626-2222 during the weekday

office hours of 7:00 a.m.-4:00 p.m., after hours, weekends and holidays. This will contact the security officer on duty directly via cellular phone. Each call will be responded to by a campus security officer.

2. All academic buildings are locked each evening and during the weekends. One security officer makes nightly rounds, using a computerized security key system. All residence halls, except North Hall are locked at midnight Sunday-Thursday and 2:00 a.m. on Friday and Saturday. Individual keys are issued to each resident student. Another security officer is on duty in the residence hall area from 11:00 p.m. to 7:00 a.m. each day.
3. The Security Department personnel are not commissioned law enforcement officers. However, each officer has completed the coursework necessary to meet the state requirements to be commissioned. There is an excellent working relationship between the department and the city and county law enforcement agencies. All employees and students are directed to report all occurrences of any criminal activity to the Campus Security. Campus Security is directed to report all felonies to the Joplin Police Department.
4. These policies and procedures are published in the *Student Handbook* which is distributed to all freshmen students. Each semester during freshman orientation, seminars are given covering date rape, safety tips and security procedures.
5. Crime prevention programs are presented each semester by the Campus Activities Board, Student Services and Residence Hall Association. Pamphlets regarding crime prevention are distributed to all resident students and are made available to all students in the Student Center.
6. MSSC does not have off-campus student organizations recognized by the institution.
7. Crime statistics are available in the Campus Security Office.

### **Student Identification Cards**

The student identification card is produced by the College and issued to all students as a means of personal identification. The College reserves the right to request a student to produce the I.D. card at any time deemed necessary. The student I.D. is a service to students currently enrolled who wish to use college facilities and services. The first student I.D. costs \$2.00; replacement cost for lost cards is \$5.00. Student I.D. cards may be obtained at the Campus Security Office.

# *Academic Affairs*

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**Spiva Library**  
**The Honors Program**  
**Summer Study at Oxford**  
**Continuing Education**  
**The Learning Center**  
**Assessment Center**  
**Writing Program**  
**Grants Office**  
**Admission**  
**Core Curriculum**  
**Baccalaureate Degree**  
**Associate Degree**  
**Academic Regulations**  
**Grading Policy**  
**Academic Standards**

# **Academic Affairs**

## **Vice President for Academic Affairs**

Erik J. Bitterbaum  
Hearnes Hall 200, 625-9394

**Staff:** J. Larry Martin, Dean, School of Arts and Sciences; James M. Gray, Dean, School of Business Administration; Michael J. Horvath, Dean, School of Education and Psychology; Jack G. Spurlin, Dean, School of Technology; (To be Appointed) Assistant to the Vice President; R. Jerry Williams, Director of Continuing Education; Charles H. Kemp, Head Librarian; Eugene C. Mouser, Registrar; Delores A. Honey, Director of Center for Assessment and Institutional Research; Eileen A. Godsey, Director of the Learning Center; Elaine Freeman, Director of Special Programs; and Nadine P. Schmidt, Grants Writer; David (Lanny) Ackiss, Director of Honor Program; Pat P. Kluthe, Assistant Director of Honor Program.

The Office of the Vice President for Academic Affairs is responsible for the administration of the instructional program both on and off campus. The Learning Center, the Honors Program, the Continuing Education Office, the Writing Program, the Assessment and Institutional Research Office, the Library, the Grant's Office, Registrar's Office and all academic units are under its direction.

## **The George A. Spiva Library**

*Spiva Library 205, 625-9386*

Charles H. Kemp, Head Librarian

**Librarians:** Robert Black, Mary Lou Dove, Susan Huston, Charles Nodler, Gaye Pate and Edward Wuch.

The Library consists of two units:

1. George A. Spiva Library
2. The Audio-Visual Center

## **The George A. Spiva Library**

The Spiva Library is the major information resource on campus. Available in the Library for student use are 230,000 book volumes and 1,223 periodical titles. A state and federal government documents collection; a law library; and a 551,000 item microform collection provide additional reference materials for student research. Additional collections housed in the archive's area are the Congressional Papers of former member of the United States House of Representatives, Gene Taylor, tri-state mining maps, and the papers of the late Dr. Arrell Gibson, a noted western historian.

The collections are housed in an attractive facility constructed in 1967. There have been two renovations of the building since then, with a third expected shortly. The renovation includes an elevator that will provide easy access to all floors of the library. The staff is composed of seven

librarians, 12 support staff members and part-time student staff members. The Library is open from 7:30 a.m. until 11:00 p.m., Monday through Friday. On the weekends, the hours are from 9 a.m. until 11 p.m. on Saturday and on Sunday from 2 p.m. until 10 p.m. The service week of 99.5 hours is above that of many academic libraries.

The teaching function of the library is important, as it should be in a college that prizes excellence in the intellectual development of its students. Every effort is made to ensure that students learn how to conduct research in the library effectively and to use information resources knowledgeably. Tours of the library are given by librarians and student guides. Workshops, class lectures and additional assistance are provided by librarians. The library staff also teach library patrons how to use computer information sources and assist them with research and information needs.

Modern technology is used heavily in the library. Interlibrary loan requests are sent and received through a nationwide computer network of libraries. Locations of requested materials can be determined in minutes through the OCLC Network which has a database of over 28 million records in over 11,000 member libraries. A telefacsimile machine service is used to rapidly send and receive copies of periodical articles. New services through the INTERNET allow students and faculty members access to hundreds of library catalogs, discussion groups, listservs, and additional databases. Shortly, not just periodical articles, but video can be transmitted back and forth over the information highway.

All functions of the library are automated. Students at home or professors in their offices can call in using modems and determine what materials the library has. A useful feature of the system indicates whether a book or journal is checked out. The LION, the library's on-line public access catalog, displays periodical indexing for selected H. W. Wilson indexing





services. *The Reader's Guide* and the *Business Periodicals Indexes* include abstracts. Besides the modern OPAC, students and faculty members enjoy automated circulation with no-wait checkout of library materials.

The compact disk technology has made retrieval of subject matter in periodicals so easy that it has become the preferred method for students. The major indexes in business, education, social science, history, psychology, English, biology and nursing are available in the CD-ROM format. *Newsbank*, *The Academic Index*, *The Grolier Encyclopedia* and the *Oxford English Dictionary* are a few of the formerly print-only reference materials used in the CD-ROM format by Spiva Library patrons. Specialized indexes are available through on-line searching services like DIALOG. The reference staff conduct these searches for students or faculty members at no charge. This information service provides access to several hundred additional databases. Additional information sources are available via the INTERNET. This access is open to all students and faculty members.

The library has even gone beyond indexes and can furnish the full text of articles found in the indexes in CD-ROM format for two of the databases. After searching *ABI/INFORM* or *General Periodicals Index*, a student can insert a CD-ROM in the player and either read the full article on the screen or print a copy on the laser printer. With these information sources at their disposal and the ever increasing availability of information through the INTERNET, students at Missouri Southern never lack for information for research papers.

### **The Audio Visual Center**

Located on the top floor of the Spiva Library are the government documents collection and the Audio Visual Center. The AVC is the audio-visual materials component of the Spiva Library. These materials include video and audio tape materials, films, slides, kits and miscellaneous instructional

materials. Curriculum textbooks, curriculum guides on microfiche, juvenile and children's books that support the teacher training curriculum are housed in this area. Materials in this area are cataloged and indexed in the LION. The AVC provides appropriate playback equipment for all the materials.

The AVC staff provides limited production services like making overhead transparencies, laminating materials and copying audio-tapes. Computer services include access to word processing, database management, and programming languages. Students access computer services through a local area network of 486 DX workstations. A projected expansion of the lab will include access to library CD-ROMs from other LANS on campus. Access to the INTERNET and other LANs on campus will also be available from the library. The AVC has an inventory of slide projectors, video cassette recorders and monitors, audio cassette recorders and film-strip projectors for checkout. Equipment is housed in each school and department, so the AVC equipment is limited to basic items. Helpful staff are stationed in this area to provide assistance with the computers, government documents, or audio-visual materials.

### **The Honors Program**

*Webster Hall 118, 625-9686, 625-9384*

David L. Ackiss, Director  
Patricia P. Kluthe, Assistant Director

The Honors Program at Missouri Southern State College is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students.

Entrance into the program is by invitation. Because admission is selective and competitive, classes normally are smaller than regular classes, permitting Honors students to enjoy interaction with other outstanding students in an informal atmosphere conducive to exciting and challenging discussions.

Honors courses put our best students in small classes with our best teachers – right from freshman year on. Distinguished professors and Honors students have opportunities to expand the educational experience beyond that available in regular courses. Students receive personal attention and special guidance, and the program is flexible to permit them to pursue particular scholarly interests and to engage in innovative and creative approaches to learning.

Expectations for performance in the program are high. As an Honors student, one is expected to strive for grades against these standards; one is not, however, expected to compete with others for grades. Through this program, the challenge to perform at the top of one's ability is matched by the opportunity to do so in an environment that is simultaneously fun, exciting and intellectually demanding.



### The Curriculum

While students will take courses offered in Southern's regular curriculum, these five features are specifically designed for Honors students:

#### *Honors Forum*

This course is an open forum to discuss a variety of topics, issues and other matters of interest to Honors students. Active learning is nurtured as students select, design and implement topic presentations.

#### *Core Curriculum Courses*

Special sections of required courses such as English composition are designated as Honors sections. There are a number of such courses to select from each semester, and most Honors students take these during their freshman and sophomore years.

#### *Junior Honors Courses*

These are interdisciplinary seminars on a variety of special topics not normally covered in the regular college curriculum. You will have the opportunity to develop seminar presentations on topics you devise with the instructor's help.

#### *Senior Honors Courses*

Students take at least one Honors course in their major during the senior year. Working under professors in their major field, they design and carry out independent projects investigating in-depth topics that interest them.

#### *Honors Senior Colloquium*

Based on the senior Honors course, each student makes a presentation on that course content or course experiences to an Honors Colloquium open to a campus-wide audience. The presentation is required of each student for completion of the Honors Program.

### **Honors Recognition**

Missouri Southern is affiliated with the National Collegiate Honors Council, The Great Plains Regional Honors Council, and Phi Eta Sigma and Alpha Chi, national honor societies. Most Honors students have the opportunity to participate in the activities of these organizations and to attend regional and national conferences.

Every Honors course one completes with a final grade of A or B is identified as an Honors course on one's transcript. If one maintains a cumulative grade point average of at least 3.5 and completes 26 hours of Honors courses, one will receive special recognition at graduation.

### **Oxford Program**

To live and study at historic Christ Church College of Oxford University is perhaps the experience of a lifetime. Southern offers an elective summer study program in England at Oxford, one of the world's foremost universities. Students participate in small seminar groups led by Oxford University tutors and live in an atmosphere of Oxford college life as it has survived over the past 700 years.

A select group of students have the opportunity to participate based on their advanced academic standing for hours accumulated and grade average. Qualified students select courses offered in three-week sessions on various subjects. Southern grants partial scholarships to some students each year. Honors Program students are given priority consideration in the selection process.

There is also time for students to enjoy the rich heritage of England through formal tours and individual excursions. A great opportunity awaits those selected to be members of this distinguished community of scholars and participants in the Oxford experience.

### **The Evans Scholarship**

In competing for admission to the Honors Program, students also are competing for the Walter and Fredrica Evans Scholarship, which will be awarded as funds allow to the most highly qualified applicants. The Evans is a four-year renewable scholarship that covers tuition, book rental fees and student activity fees, for fall, spring and summer semesters. Additional scholarship funds to cover on-campus room and board are available for Evans Scholars who are National Merit Scholarship semifinalists or who have an ACT Composite score of 31 or better. This is the finest scholarship Southern offers.

### **Eligibility**

All students who wish to participate in the Honors Program must be admitted to Southern. Incoming freshmen with at least a composite score on the ACT of 28 or with at least a grade point average of 3.5 (on a 4.0 scale) in high school course work are invited to apply for admission to the program. Two letters of recommendation, from the student's high school principal and from a high school teacher, an essay and an interview with the Director of the Honors Program may also be required.

Students who have already completed between 15 and 30 hours of course work with a grade point average of 3.5 at Southern or any other accredited college or university are also invited to apply for admission into the program.

The Honors Program will offer special admission to Missouri's associate degree graduates who hold the CBHE Bright Flight Scholarship. Those with a least a 3.5 GPA will be eligible for a scholarship that covers the full cost of tuition, room and board, activities, fees and textbook rental. Those with a 3.0 GPA will be eligible for a scholarship equivalent to our Regent's Scholarship.

## **The Division of Continuing Education**

*Webster Hall 133, 625-9368*

R. Jerry Williams, Director

The Division of Continuing Education embraces the life-long learning concept by providing credit and non-credit courses that supplement the college curriculum. Over 34,000 students have enjoyed learning opportunities in a wide range of academic and non-academic subjects.

The Division also is responsible for distance education programs offering courses off the main campus. Delivery systems include customized training provided at business and industrial sites, video tape correspondence courses and courses offered through the college television broadcast station and microwave system. Numerous seminars and workshops are also offered through the Division of Continuing Education for professional continuing education credit and personal self enrichment.

Information concerning various programs may be obtained by contacting the Division of Continuing Education located in Webster Hall Room 133.

## **The Learning Center**

*Mansion Classroom Building, 625-9373*

Eileen Godsey, Director

**Staff:** James Brown, Jan Dursky

The mission of the Learning Center is to provide a wide range of support programs to students and faculty. Learning Center staff are available to assist any MSSC student to become a more independent and efficient learner.

**Tutoring in Content Areas** – Peer and faculty tutors are available. Some drop-in tutoring is offered, although an appointment is recommended. Both short- and long-term assistance is provided.

**Writing Lab Services** – Trained peer tutors instruct and coach students in all aspects of writing, such as writing process strategies, research paper documentation, and correct mechanics.

### **Classes**

*English 080* – Prepares students for college writing courses. Students write at least six major papers with special attention given to organization, syntax, grammar, and mechanics.

*Academic Skills for College Success* – A course emphasizing current issues to improve vocabulary, comprehension and critical reading ability.

### **Workshops**

- \*Word Processing
- \*Study Skills
- \*Exam Preparation

**Computer Lab** – The Learning Center offers a networked computer lab with both DOS and Windows word-processing programs. Students may work on individual assignments or use the Center's software.

**Support Services** – The Learning Center provides support services to students with disabilities:

- \*Early Registration
- \*Books on Tape
- \*Tutoring
- \*Alternative Testing

Support services are elective and must be requested by the student.

### **Audio/Visual and Computer Assisted Instructional Resources**

Tapes are on reserve in the Center and may be viewed or checked out upon request. The collection includes faculty created study guides and practice tests, taped classes, practice drills in grammar and punctuation, national exam guides, as well as other academic support materials.



### The Center for Assessment and Institutional Research

Matthews Hall 321, 625-9696

Delores A. Honey, Director

Missouri Southern is committed to the measuring of outcomes of curricular programs. Both the Core Curriculum and the major are assessed each year. The relative strength of programs can be judged and actions formulated to ensure that all programs provide the best possible opportunities to students.

### The Writing Program

Hearnes Hall 314

Joseph Lambert, Director

Each student is required to complete five writing intensive courses as a part of the baccalaureate degree. The director and a faculty committee advise the Vice President for Academic Affairs on the development and supervision of the program.

### The Grants Office

Matthews Hall 321

Nadine P. Schmidt, Grants Writer

The Grants Office seeks out new sources of funding to enhance the College's ability to pursue its academic and student service goals. These grant-related funds supplement the College's tuition and state revenues, creating opportunities for programs, services, and equipment that might not otherwise be possible. Working closely with all areas of the college, the Grants Office writes a number of grants and proposals for funding each year for submission to federal and state grant programs, as well as to private foundations and corporations.



### Admission

Hearnes Hall 109, 625-9378

Admission decisions are based on current admission policies established by the Board of Regents and are made in accordance with the recommendations of the Coordinating Board of Higher Education. Students are encouraged to apply for admission early. Applications are available through the Admission Office and most high schools and community colleges.

#### Regular Admission for 1995-96

Students who have graduated from a state approved high school or possess its recognized high school equivalent (GED) will be admitted if:

1. they rank in the upper one-half of their high school graduating class; or
2. they have a composite score of 18 or above on the ACT test.

Applicants whose ACT scores or class ranks are below those stated above may request a review.

#### Core Curriculum Requirement

The College encourages high school students to follow the core curriculum requirements outlined by the Missouri Coordinating Board of Higher Education. The core includes:

**English, 4 units.** Two units emphasizing composition or writing skills are required. One unit may be speech or debate.

**Mathematics, 3 units.** The units must include Algebra I, Algebra II and Geometry. A fourth higher level mathematics course is strongly recommended.

**Social Studies, 3 units.** Courses should include United States history and courses selected from world history, government, geography and economics.

**Science, 2 units.** General Science does not count. One unit must include a laboratory. Biology, physics and chemistry are strongly recommended.

**Visual/Performing Arts, 1 unit.** Fine Arts courses include such areas as visual arts, music, dance or theatre.

**Electives, 3 units.** These may be selected from world geography, higher level mathematics, additional science, foreign languages (if a language is chosen as an elective, the college recommends 2 units of the same language), advanced placement courses or a combination of the core courses listed above.

The College strongly recommends the completion of 14 core units for admission in the fall of 1995. In 1996, the college strongly recommends the completion of all 16 units.

***Admission requirements are subject to change without notice.***



**Admission Review Committee** Individuals who do not meet the College's admission criteria may request a review of their application. The committee may make one of three decisions: grant regular admission, deny admission or admit as a special student.

### **Students With Previous College Experience**

**Former MSSC Students:** Former Missouri Southern State College, Jasper County Junior College and Joplin Junior College students must inform the Office of Admission of their intention to return. When necessary, these students will be required to update their credentials.

**Transfer Students:** (*Students who are enrolling at MSSC for the first time*) Credits will be accepted from a two-year college to meet lower division (freshmen and sophomores, 100-200-level course) requirements. A total of 64 semester hours of credit earned at a two-year college is the maximum that may be applied toward a baccalaureate degree. A minimum of 64 semester hours must be earned in a senior college to obtain the baccalaureate degree from Missouri Southern.

The following credentials must be submitted to the Director of Admission:

1. an official transcript from previously attended institutions sent directly to the Director of Admission;
2. be eligible to return to last institution attended;
3. pay \$15 non-refundable application fee; and
4. submit ACT scores if English or mathematics have not been completed or are seeking a degree in education.

Transfer students who have completed a college transfer curriculum and have been awarded an associate of arts degree from an accredited public two year college in Missouri, prior to enrolling in Missouri Southern, are assumed to have fulfilled the lower division Core Curriculum requirements. Students will be directed immediately into their major

area according to their preparation. Transfer students who have not completed the associate of arts as stated above will have their courses evaluated individually.

Transfer students seeking admission to Missouri Southern State College from colleges or universities not accredited by a regional association may be given full recognition for their credits earned when the credit is appropriate to the student's degree programs and after Missouri Southern State College has validated the courses. Applicants must meet the following conditions:

1. the student must be in good standing at the institution from which they are transferring, and
2. the student must have a cumulative grade-point average of 2.00 or higher (on a 4.00 scale) for all work attempted.

Any transfer student falling below a 2.0 GPA but above the College's standards of progress may be considered for admission on probation.

Transfer students must take a minimum of 30 of the last 36 semester hours for the baccalaureate degree in residence at Missouri Southern.

**Transient Students:** Student in good standing at other colleges and universities may wish to enroll at Missouri Southern for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the application form, payment of the \$15 non-refundable application fee and a statement of good standing from the authorized college official or Registrar of the student's home college or university. Students wishing to continue course work at Missouri Southern State College must meet admission criteria.

**International Students:** International students not citizens of the United States who wish to apply for admission should write the Director of Admission for the proper application forms and instructions. In addition to the admission credentials required of all students on page 38, international students must satisfy these concerns: (a) academic competency, (b) ability to read and speak the English language adequately for college level study, and (c) ability to finance the cost of education at Missouri Southern. All applicants from non-English speaking nations must score in the 75th percentile on the Michigan Test for English as a Foreign Language or score 535 on the TOEFL Test. Deadlines for completed application for admission are:

<b>Freshman</b>	<b>Transfer</b>
Fall Semester-July 1	Fall Semester-July 10
Spring Semester-November 1	Spring Semester-January 2
Summer Semester-April 1	Summer Semester-May 25

Students who are citizens of the United States and use English as a second language must pass English language competency. A TOEFL test score of 535 or a score in the 75th percentile on the Michigan Test is required of these students.



**Dual Credit:** The Missouri Department of Elementary and Secondary Education has authorized Missouri Public High Schools and Missouri Public Colleges and Universities to grant dual credit to high school students simultaneously enrolled in college and high school. Missouri Southern is pleased to participate in this program. Admission to courses for dual credit is selective, and is subject to specific conditions. Additional information may be obtained from the Office of the Vice President for Academic Affairs.

**Credit-in-Escrow:** The credit-in-escrow program consists of college studies for outstanding high school students who have completed their junior year. They must have a 3.0 GPA and the approval and recommendation of their high school principal.

## Credentials Required for Admission

### Regular Admission

- (1) **High School Transcript:** An official transcript of high school credits must be filed showing that requirements for graduation have been met. A 6th, 7th or 8th semester rank in class must appear on the record. (The College will accept a satisfactory score on the General Educational Development (GED) test in lieu of a high school transcript.)
- (2) **Placement Test:** Missouri Southern participates in the American College Testing Program. Scores from the enhanced battery must be presented as an admission credential. These tests are administered at nationally approved test centers five times a year. Missouri Southern is a test center.
- (3) **Application:** The application for admission must be completed one week before the first day of enrollment (see college calendar on page 14). This includes all credentials required by the Admission Office.

(4) **Application Fee:** A fee of \$15 must be included with the application for admission. (This fee is non-refundable and non-applicable to other college fees.)

(5) **Miscellaneous Requirements:** Additional credentials are required from students whose application credentials raise questions about their acceptability into the student body. While the College makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body are in question. Students who do not attend Missouri Southern within one year after making application must submit new credentials when seeking admission.

### Admission to Selective Programs

**The Health Sciences (nursing, dental hygiene and radiologic technology):** Admission to Missouri Southern does not automatically confer admission to the programs of nursing, dental hygiene, radiologic technology. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the department of nursing office, Kuhn Hall; the dental hygiene department office, Ummel Technology Building; or the radiology department of St. John's Regional Medical Center. Applications should be submitted prior to March 1, preceding the fall semester in which the student wishes to enroll. Each application is reviewed by the Admission Committee of the respective department. See nursing department page 167, dental hygiene department page 160 or radiologic technology page 173 under affiliated programs for full information on admission and acceptance criteria.

**Honors Program:** This program is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Entrance into the program is by invitation. Interested students should write the Director of Honors Program for an application form. (Page 33)

### Special Admission

A students who wishes to enroll in college but does not meet regular admission requirements may be permitted to enroll in classes as a non-degree seeking student. College hours completed in this status cannot be counted toward a degree until the student meets regular college admission criteria. Special admission classification is not eligible for financial aid.

Students who possess a high school diploma or GED may request reclassification by:

1. Meeting all of the College's admission criteria, or
2. successfully completing 21 hours with a 2.0 GPA.

Individuals without a diploma or GED must complete 59 hours with a GPA before a request for reclassification can be considered.

### Continuing Education

**Off-Campus Extension:** Regular college curriculum classes frequently are offered off campus. Students who enroll in these classes will generally be enrolled as a "temporary" student.

**Off-Campus—Credit:** The College is committed to offering educational experiences necessary for community betterment. When possible, these classes are structured in such a manner as to allow college credit for the classes. Such students are enrolled as "temporary" students.

**Off-Campus—Non-credit:** Often the College offers classes primarily for entertainment or avocation purposes. Students enrolling in these classes may do so with the permission of instructor.

**Return to Learn:** Adult students can and do face problems and situations unique to their age group. These may include having families to support, needing child care, feeling alone in their age group and being uncertain of their abilities. This program is designed to prepare adult learners to continue their education with confidence. These students will be admitted under the "special" category listed above.

**60 Plus:** This program is designed to serve interested individuals over the age of 59. Community residents may enroll in any course on a space-available basis without providing previous transcripts. Compliance with course prerequisites is necessary and is the students' responsibility. Enrollment takes place after regular registration. 60 Plus students may elect to receive grades and credit for their courses. If students enrolled via 60 Plus later desire to become regular students, they must make application to Missouri Southern for a future semester.

### Placement, Examinations, Credits

#### Resident Credits from Institutions of Equal Standing with Missouri Southern State College

Credits transferred from accredited colleges and universities will be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same length of time of instruction. Students may not transfer credits to satisfy more than one half of the major course requirements in a department unless the approval of the Vice President for Academic Affairs is obtained.

#### Advanced Standing Examination

A student whose travel, employment, extensive readings or other unique educational experiences appear to have provided proficiency in a course required in the curriculum equivalent to that ordinarily attained by those taking the course in regular classes, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination. In order to receive credit for a departmental examination, a student must have the following qualifications in addition to those listed above:

- (a) be enrolled in college at the time of the examination;
- (b) not have taken an examination over the course within the preceding six months;
- (c) not have credit in a more advanced course in the same field;
- (d) be working toward a degree at Missouri Southern State College;
- (e) have the approval of the head of the department in which the course is offered;
- (f) not use examination to replace a previously earned grade.

After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade or above, the Registrar will record the credit.

### Degree Requirements

#### International Baccalaureate

Missouri Southern will grant up to 30 semester hours or the equivalent of one full year of college study, to those who have completed study in the International Baccalaureate curriculum in high school. Missouri Southern will grant college credit and advanced placement for International Baccalaureate courses completed at the higher level with a score of four or greater. Students with such backgrounds should contact the Vice President for Academic Affairs through the Admissions Office for a detailed analysis of credits and standing.

#### Advanced Placement Test (AP)

Missouri Southern participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. Credits are granted for course areas in which a student has completed Advanced Placement Examinations with a score of 3, 4 or 5.



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### **Correspondence Course Credit**

Missouri Southern does not offer courses by correspondence; however, it does accept credit earned in this manner from regionally accredited institutions. No student will be permitted to apply course work in correspondence toward his or her degree after a total of 12 hours has been completed in correspondence courses.

### **Course Credit for Military Service and Schooling**

Military Service students who have completed a minimum of one year of active military service may be granted credit to meet the HPER 101 and HPER 103 requirements of the Core Curriculum. Thus, these requirements will be satisfied if the DD214 form is submitted to the Missouri Southern Registrar's Office. Credit may also be granted for specific military schooling as recommended by the American Council of Education. The credit granted will be comparable to courses listed in the bulletin and will carry the grade of "Cr". The veteran must present documentation designating the military course, date and site of the course.

### **Validation Examinations**

If Missouri Southern refuses to accept a student's earned credit in a course because of the method in which the course was taken or because the institution at which the course was taken was not accredited, the student may apply for a validation examination. In order to qualify for a validation examination a student must: (a) be enrolled at Missouri Southern State College at the time the examination is taken; (b) present the necessary evidence to prove that the course was taken; (c) get approval from the Registrar, the school dean and the head of the department in which the course is offered; and (d) initiate the proceedings within the first eight weeks after entering college.

The student initiates the request for examination at the Registrar's Office. The school dean and the department head will appoint a professor to construct, administer and evaluate the examination. The result is reported to the Registrar who records the grade if it is "C" or above.

### **The Honors Program**

Entering students will be governed by admission policies clarified on page 36 of this catalog. In addition, students generally will not be admitted to the Honors Program after they have earned 30 credit hours. However, if such a student presents a plan to take the 26 honors hours required to complete the program, that student will be considered by the Honors Committee on an individual basis.

### **Graduation**

- A. **Graduation Requirements:** The responsibility for satisfying all requirements for a degree rests with the student. Advisers, faculty members and administrators offer help to the student in meeting this responsibility.
- B. **Time of Graduation:** A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the spring semester.
- C. **Placement Services:** Each degree candidate must register in the Office of Career Planning and Placement.
- D. **Degree Candidacy Application:** Each student must make application for degree candidacy during the semester preceding the last semester in attendance. The application process is initiated at the Placement Office.
- E. **Senior Assessment:** All graduating seniors are required to complete a Core Curriculum and a departmental exit assessment before the baccalaureate degree is awarded. Effective: July 1, 1988.



## Baccalaureate Degree Requirements

- A. **Residence:** The following minimum requirements must be met in residence at Missouri Southern: (1) 30 of the last 36 hours counted toward the degree; (2) one-half of the courses both required for the major and in the major department. Courses required for the major but not offered in the major department are not included; (3) one-half of the upper division courses both required for the major and in the major department.
- B. **Credit Hours:** At least 128 semester hours of college credit applicable to a baccalaureate degree are required for graduation.
- C. **Grade Point Average (GPA):** The following minimum GPA's are required for all baccalaureate degrees except the B.S.E.:
  - 1. a 2.0 GPA for all credit hours attempted;
  - 2. a 2.0 GPA for all the courses required for the major, both inside and outside the major department;
  - 3. a 2.0 GPA for all courses, both required and elective, taken in the major department.

The following minimum GPA's are required for the B.S.E.:

- 1. a 2.75 GPA for all credit hours attempted;
- 2. a 2.50 GPA for all the courses required for the major, both inside and outside the major department;
- 3. a 2.50 GPA for all courses, both required and elective, taken in the major department;
- 4. a grade of C or better in professional education courses and courses required for elementary education, special education and early childhood.

- D. **Upper Division Hours:** A minimum of 40 semester hours in upper division courses (those with numbers in the 300's and 400's) must be completed to meet the graduation requirements. Reasonable adjustments are made for three-one affiliation programs.

- E. **Writing Intensive:** Five writing intensive courses will be required of all baccalaureate degree candidates. Six hours must be completed in the freshman year and two of the three remaining courses must be taken at the junior and/or senior level. One upper division course must be taken in the student's major. (Writing Intensive courses may be identified in the "schedule of classes" by a "WI" placed at the end of the course number. Example: Psy 480WI Senior Seminar.) Students transferring to Missouri Southern from another college will fulfill the Writing Intensive requirement as follows:

*Total hours at time transfer to Missouri Southern:*

Fewer than 30 hours

*Minimum Writing Intensive courses required:*

Five courses as outlined above

30 to 89 hours

Four courses, with at least two at the junior/senior level, one of which must be in the major

90 hours or more

Three courses, one must be in the major and at the junior/senior level

- F. **Foreign Language:** All students expecting to graduate with a bachelor of arts degree must successfully complete 12 hours of the same foreign language as a part of the graduation requirements.
- G. **Special Education:** All students expecting to graduate with a bachelor of science in education degree must successfully complete two hours of Special Education (Educ 302) as a part of graduation requirements.
- H. **Computer Literacy:** All students will receive computer instruction to a level of understanding necessary for them to function as a member of society and to a level of skill sufficient to use the computer for problem solving within their discipline. Department heads will certify the competency of the students in their disciplines.
- I. **Assessment:** All degree candidates are required to participate in College assessment of outcomes activities.
- J. **Core Curriculum Requirements:** Missouri Southern has a Core Curriculum program that contributes toward the development of the whole person, as an individual and as a member of society. All degree candidates must satisfy the following Core Curriculum requirements:

### Baccalaureate Degree

Area 1. Basic Requirements*	Credit Hours Required
A. English Compositions	6
Freshman Year (Eng 101 and 102 or achievement in the required competency level can be done in Eng 111 in 3 hours)	
B. Communication	3
Comm 100 Oral Communication	
C. Mathematics (110 or above)**	3
D. Physical Education**	3
HPER 103 Lifetime Wellness**	(2)
HPER 101 Physical Activity	(1)
<b>Total for Area 1</b>	<b>15 Hours</b>
Area 2. Humanities and Fine Arts	
A. Select One	3
Art 110 Art Appreciation	(3)
Mus 110 Music Appreciation	(3)
Th 110 Theatre Appreciation	(3)

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B.	<b>Select One</b>	3	D. <b>Major Field:</b> The student must meet the course requirements of the particular preprofessional program selected. Or, the degree may consist of the general education courses plus additional hours, adding up to 64, as approved by the adviser and the Vice President for Academic Affairs.	Credit Hours Required
	Eng 261, 262 World Masterpieces Eng 271, 272 English Masterpieces Eng 281, 282 American Literature	(3) (3) (3)		
C.	<b>Select One</b>	3	E. <b>Core Curriculum Requirements:</b> The degree requires completion of the following Core Curriculum requirements:	
	Eng 150 Introduction to Literature Eng 305 Short Story Eng 261, 262 World Masterpieces Eng 271, 272 English Masterpieces Eng 281, 282 American Literature Phil 201 Introduction to Philosophy Art 110 Art Appreciation Mus 110 Music Appreciation Th 110 Theatre Appreciation	(3) (3) (3) (3) (3) (3) (3) (3) (3)		
	<b>Total for Area 2</b>	<b>9 Hours</b>		
<b>Area 3. Natural Science and Behavioral Sciences*</b>				
A.	<i>Bio 101 General Biology**</i>	4	A. <i>English Compositions</i>	6
B.	<i>Phy 100 Fundamentals of Physical Science**</i>	5	Freshman year (Eng 101 and Eng 102 OR achievement in the required competency level can be done in Eng 111 in 3 hours)	
C.	<b>Select one</b>	3	B. <i>Comm 100 Oral Communication**</i>	3
	Psy 100 General Psychology** Soc 110 Sociology	(3) (3)	C. <i>Mathematics (Math 110 or above)**</i>	3
	<b>Total for Area 3</b>		D. <i>Physical Education</i>	3
			HPER 103 Lifetime Wellness** HPER 101 Physical Activity**	(2) (1)
			<b>Total for Area 1</b>	<b>15 Hours</b>
<b>Area 4. American Cultural Studies*</b>				
A.	<i>Hist 110 U.S. History 1492-1877 AND Hist 120 U.S. History 1877-Present OR Hist 320 U.S. History 1877-Present</i>	3	<b>Area 2. Humanities and Fine Arts*</b>	3
	PSc 120 Gov't: U.S., State, Local	3	A. <b>Select One</b>	
	Econ 180 American Economic System (Majors and minors in business should take Econ 201)	3	Art 110 Art Appreciation Mus 110 Music Appreciation Th 110 Theatre Appreciation	(3) (3) (3)
	<b>Total for Area 4</b>	<b>12 Hours</b>	B. <b>Select One</b>	3
			Eng 261, 262 World Masterpieces Eng 271, 272 English Masterpieces Eng 281, 282 American Literature	(3) (3) (3)
			C. <b>Select One</b>	3
			Eng 150 Introduction to Literature Eng 305 Short Story Eng 261, 262 World Masterpieces Eng 271, 272 English Masterpieces Eng 281, 282 American Literature Phil 201 Introduction to Philosophy Art 110 Art Appreciation Mus 110 Music Appreciation Th 110 Theatre Appreciation Foreign Language	(3) (3) (3) (3) (3) (3) (3) (3)
			<b>Total for Area 2</b>	<b>9 Hours</b>
<b>Area 5. International Cultural Studies*</b>				
A.	<b>Select One</b>	3	<b>Area 3. Natural Sciences*</b>	4
	Hist 130 or 140 Western Civ Geog 211 Regions and Nations	(3) (3)	A. <i>Bio 101 General Biology**</i>	
	Anth 155 Physical Anthropology and Archeology	(3)	AND	
	Foreign Language	(3)	<i>Phys 100 Fundamentals of Physical Science**</i>	5
	GB 310 International Business	(3)	<b>Total for Area 3</b>	<b>9 Hours</b>
	Anth 342 Comparative Cultures	(3)		
	Comm 305 Intercultural Communication	(3)		
	Soc 304 The Arab World	(3)		
	CJAd 301 International Justice Systems	(3)		
	Phil 320 Comparative Religion	(3)		
	Eng 385 Continental Novel	(3)		
	<b>Total for Area 5</b>	<b>3 Hours</b>		
<b>Total Core Curriculum Requirements</b>				
		<b>51 Hours</b>	<b>Area 4. Social and Behavioral Sciences*</b>	3
	*Occasionally, selected courses may be substituted for this area.		A. <i>Psc 120 Gov't: U.S., State Local</i>	
	**See degree requirements listed in the Catalog for courses that		B. <i>Hist 110 U.S. History 1492-1877 OR Hist 120 U.S. History 1877-Present</i>	3
	are substituted for specific majors.		C. <b>Select One</b>	3
			Hist 130 or 140 Western Civ Geog 221 Regions and Nations	(3) (3)
			Anth 155 Physical Anthropology and Archeology	(3)
			Soc 110 Sociology (3)	
			Psy 100 General Psychology (3)	
			Econ 180 American Economic System** (3)	
			<b>Total for Area 4</b>	<b>9 Hours</b>
<b>Total Core Curriculum Hours</b>				
			*Occasionally, selected courses may be substituted for this area.	
			**See degree requirements listed in the Catalog for courses that	
			are substituted for specific majors.	

## Associate Degree Requirements

### Associate of Arts Degree

- A. **Credit Hours:** A minimum of 64 semester hours must be completed.
- B. **Residence:** The last 15 semester hours must be completed in residence at Missouri Southern.
- C. **Grade Point Average:** Minimum cumulative and major field grade point average must be 2.0.

<b>Total Core Curriculum Hours</b>	<b>42 Hours</b>
*Occasionally, selected courses may be substituted for this area.	
**See degree requirements listed in the Catalog for courses that are substituted for specific majors.	

## Associate of Science Degree

- A. **Credit Hours:** A minimum of 64 hours must be completed.
- B. **Residence:** The last 15 semester hours must be completed in residence at Missouri Southern.
- C. **Grade Point Average:** The minimum cumulative and major field grade point average must be 2.0.
- D. **Major Field:** The student must meet the course requirements in the particular program of study as approved by an adviser.
- E. **Core Curriculum Requirements:** The degree requires completion of the Core Curriculum courses as well as those outlined in the student's major field of study. The Core Curriculum required courses are:

### Area 1. Basic Requirements\*

	Credit Hours Required
A. Eng 101 English Composition	3
B. Comm 100 Oral Communication**	3
C. Math 30 (or above)**	3
D. Physical Education**	3
HPER 103 Lifetime Wellness** (2)	
HPER 101 Physical Activity** (1)	
<b>Total for Area 1</b>	<b>12 Hours</b>

### Area 2. Humanities and Fine Arts\*

A. Select One	3
Art 110 Art Appreciation (3)	
Mus 110 Music Appreciation (3)	
Th 110 Theatre Appreciation (3)	
Any Literature Course except 325 (3)	
Phil 201 Introduction to Philosophy (3)	
<b>Total for Area 2</b>	<b>3 Hours</b>

### Area 3. Natural Science\*

A. Bio 101 General Biology**	4
B. Phys 100 Fundamentals of Physical Science**	5
<b>Total for Area 3</b>	<b>4-5 Hours</b>

### Area 4. Social and Behavioral Sciences\*

A. Hist 110 or Hist 120 United States History	3
B. ***Missouri Constitution Requirement	
C. Select One:	3
Psy 100 General Psychology (3)	
Soc 110 Introduction to Sociology (3)	
Econ 180 American Economic System** (3)	
<b>Total for Area 4</b>	<b>6 Hours</b>

### Total Core Curriculum Requirements

\*Occasionally, selected courses may be substituted for this area.

\*\*See degree requirements listed in the Catalog for courses that are substituted for specific majors.

\*\*\*This requirement may be satisfied with credit from a Missouri public college, or PSc 120 Government: U.S., State & Local or by an examination. Examination information is available from the Dean of Arts and Sciences.

Core Curriculum courses required for the associate of science degree typically do not completely fulfill the Core Curriculum requirements for the baccalaureate degree.

When the curriculum requirement for an associate of science degree specifies a different course in the discipline than those listed above, the specified course may meet the Core Curriculum requirements for that degree.

## A Bachelor of General Studies (B.G.S.) Degree

The B.G.S. degree is a viable alternative for a few individuals who may wish thorough preparation for a career in a specific field. To pursue this option the student should consult with the Registrar regarding the degree.

## Academic Minor

Selected departments have developed an academic minor that in conjunction with the major strengthens the students' vocational preparation. A minor requires at least 18 semester hours of prescribed courses. At least six semester hours must be upper division and at least nine semester hours must be in residence. The overall GPA requirement is 2.0.

## Special Requirements

### Physical Education Requirements

All students are required to satisfactorily complete 3 hours of physical education before they are permitted to graduate. Currently, students must complete HPER 101, Physical Activity and HPER 103, Lifetime Wellness.

Students should take these courses during the freshman and sophomore years. Students who meet the following conditions may be exempt from all or part of this requirement:

- A. Students who transfer from colleges where physical education is not taught will be exempt from the requirements as follows:
  - (1) students transferring less than 15 semester hours will not be exempt from any of the requirements;
  - (2) students transferring 15 to 60 semester hours will be exempt from one hour of physical education.
- B. Upon presentation of proper documentation to the Registrar, a veteran may petition for credit in physical education.

## State Legislation Requirement

Section 170.011 of the Revised Statutes of Missouri, 1989, prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have "satisfactorily



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passed an examination of the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, and in American Institutions."

Students may comply with the law

- (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work; or
- (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the Core Curriculum requirements meet the requirements of Missouri law. Out-of-state students who do not complete their general education at Missouri Southern must pass a special examination on the Missouri Constitution.

School Laws of Missouri, 1974, require that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless they have satisfactorily completed a course of two or more semester hours in the psychology or education of the exceptional child. This requirement can be met by taking Psy 302.

### **Commencement Requirements**

Degrees are conferred only at scheduled commencement exercises. Students who graduate in the fall term, the following spring term or the following summer term are to participate in the annual spring commencement exercise. A student ready for graduation must be present at commencement in order to receive a degree. However, a candidate may graduate in absentia with the permission of the Vice President for Academic Affairs.

## **General Regulations**

### **Classification of Students**

#### **A. By Class**

- Freshman: 0-29 Hours  
Sophomore: 30-59 Hours  
Junior: 60-89 Hours  
Senior: 90 and above  
Special Admission: See page 38.

#### **B. Postgraduate:**

Persons having completed a baccalaureate degree but taking courses for the purpose of teacher certification, job preparation and additional degree or personal profit.

#### **C. Full-time:**

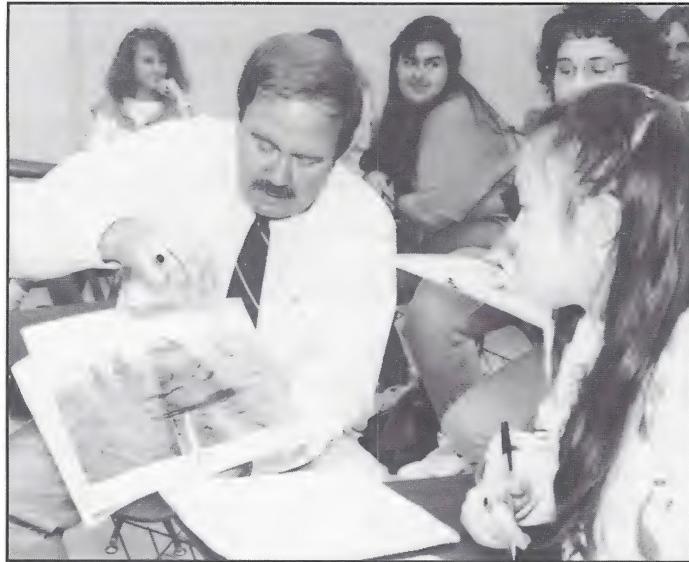
A student enrolled for 12 or more semester hours.

#### **D. Half-time:**

A student enrolled in 6-11 semester hours.

#### **E. Less Than Half-time:**

A student enrolled in less than 6 semester hours.



### **Concurrent Enrollment**

A student who is enrolled in residence at Missouri Southern and who desires to earn credit concurrently at another institution or through correspondence extension, advanced standing examination or USAFI examinations must secure advanced approval from a School Dean. Exceptions: Armed Forces personnel will be granted 60 days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

### **Co-Admission**

Students who enroll at Crowder College but meet the admission requirements of Missouri Southern and plan to transfer to Missouri Southern may apply for Co-Admission. The application will be done by the Crowder College Admission Office. Records for co-admitted students will be maintained at both institutions. Missouri Southern will assist in the academic advising of co-admitted students prior to transfer to Missouri Southern.

### **Second Baccalaureate Degree**

A student may receive a second baccalaureate degree after completing the first degree and all the requirements of the second degree. A student may not earn the same degree more than once, even though the majors differ. The "Residency" does apply.

### **Transcript Below "C" Average**

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress will be placed on Academic Probation. Missouri Southern accepts all grades from any equally accredited institution including both "D's" and "F's".

### **Maximum Credit Hour Load**

To enroll in more than 18 semester hours during a semester or in more than nine hours during a summer session, a student, with the exception of music majors, must obtain prior

written permission from the school dean. Music majors may carry as many as 20 semester hours without permission from their dean.

### **Late Enrollment**

Enrollment in a regular semester after the first week of classes or after the third day of classes in the summer session is not advisable and is permitted only with special permission from the appropriate department head. Any student enrolling after classes begin will pay a late enrollment fee.

### **Withdrawal from College**

A student who wishes to withdraw will initiate withdrawal in the Office of Counseling and Testing (114 Hearnes Hall). A student who completely withdraws from the college prior to the last week of classes in a regular or summer semester may receive a grade of "W" in all courses in which the student is enrolled. Withdrawal from the College after the last week of classes in a regular or summer semester will result in a grade of "F" being recorded for all courses, unless other arrangements are made through the Office of the Registrar. A student who leaves school without officially withdrawing shall receive grades of "F" in all courses.

### **Course Withdrawal**

A student may initiate the withdrawal from a course in the Registrar's Office. Deadlines and grades cited in the College Catalog apply.

### **Adding Courses**

A student may add a course in the appropriate Dean's Office, but only upon the approval of an adviser. A fee will be charged each time a student changes the program not at the request of the college. No course may be added after the first week of classes in a regular semester or after the third day of classes in the summer session without special permission.

### **Class Attendance**

Faculty members keep records of attendance in all regularly scheduled courses at Missouri Southern. The primary objective of student and professor is the student's attainment of course goals. It is recognized that students who achieve those objectives are normally those who attend class regularly. The professor, when giving a final semester grade, bases his/her evaluation on how well the student has achieved the course goals.

In the event that a student misses any class for ten (10) consecutive working days, the faculty member will report this in writing to the Office of the Registrar.

Missouri Southern may discontinue the enrollment of any student for non-attendance.

Students who miss a class do so at their own risk and must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, college approved activities, and extenuating circumstances. The professor may require whatever evidence is needed to support the reason for absence.

The attendance record is significant to the total record and is useful in guidance and counseling. When absences are excessive, the professor will report the fact to Student Services and they will in turn counsel with the student. The total number of student absences in a class will be reported to the Registrar's Office along with the final grade at the end of the semester.

Students should be aware that absence from class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

## **Grades and Grading Policies**

### **Grading System**

A student's grade is officially recorded by letter. At Missouri Southern, the following grades and their numerical equivalents are used:

Grade	Grade Points
A	Outstanding
B	Above Average
C	Average
D	Minimum Passing
F	Failing
W	Withdrawal

The current policy for the "W" grade is as follows:

- (a) Course withdrawals will be permitted through the first week of the semester without any grade recorded.
- (b) Course withdrawal during the second through the ninth week of the semester will be indicated by a "W" posted to the record.
- (c) Course withdrawals are not permitted after the ninth week of the regular semester (or its equivalent). Exceptions to



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this policy are infrequent and must be pursued by means of academic petition. A student who stops attending class without officially withdrawing is in jeopardy of receiving an "F" in the course.

**Incomplete (I):** A grade of "I" may be reported if a student is unable to complete the work of the course within the semester for a valid reason such as illness, death in the family, an emergency, etc. It is not intended as a substitute for an "F" and does not entitle a student to attend the class during a subsequent semester. An incomplete must be made up by the end of the next semester (excluding summers) or it will be converted to an "F" automatically. Both credit and grade points for that course are suspended until the incomplete is converted to either a passing grade or an "F".

**Audit (AU):** A student may audit a class for no grade and no credit. Acceptable performance, attitude and attendance as determined by the professor are expected. Regular fees and enrollment procedures are required. A student may not change enrollment from audit to credit nor from credit to audit. An audit means only that a student registered for the course. It does not imply any level of proficiency or knowledge.

**Change of Grade:** A change is initiated by the faculty member by filing a Change of Grade form with the Registrar. No change of grade is to be made without good cause. Exceptional cases will be reviewed by the (immediate supervisor), school dean and Vice President for Academic Affairs.

**Independent Study:** Independent study courses are special courses which may be taken by outstanding students at the discretion of the faculty adviser and the appropriate college officials. Students may enroll in independent study courses for a total of three hours on the associate degree and a total of six hours on the baccalaureate degree providing they:

1. have completed  
Associate Degree — 30 hours  
Baccalaureate Degree — 90 hours
2. have a minimum cumulative 3.00 GPA
3. have permission of the adviser, department head and the school dean in the area of independent study.

Independent study is designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Substituting independent study for a regular course is seldom done.

**Posting of Grades:** College legal counsel advises that the public posting of a student's name and grade, or student number and grade, without the student's approval, is a violation of the Buckley Amendment (Family Education Rights and Privacy Act of 1974) which does not allow disclosure of recorded data or information without the individual's written consent.

**Official Transcript:** An official transcript of the student's academic record bears the Registrar's signature and the College seal. Missouri Southern assumes no responsibility for

the accuracy of a transcript after it leaves the Registrar's Office.

Up to two weeks must be allowed after the close of a semester for the issuance of an up-to-date transcript. The transcript request must be made in writing. Each student is entitled to two (2) free transcripts. Additional copies cost \$1.00 each. No transcript will be issued unless all bills at Missouri Southern are paid or are current according to agreement with the Business Office.

## **Academic Standards**

### **Good Standing and Eligibility**

Students enrolled at Missouri Southern are in good academic standing when they meet the standards of progress toward graduation as described on page 47. Those falling below the prescribed norm will be placed on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension. Students receiving financial aid must meet the good standing criteria described on page 47.

Those students competing in intercollegiate athletics or in organizations representing the College off campus shall be required to satisfy minimum standards of progress, as indicated below, following the completion of the first academic year in order to maintain future eligibility in these programs.

### **Academic Bankruptcy**

A student may petition the Academic Policies Committee to request one semester of academic work be disregarded in computing the academic record. To be eligible for petitioning, a student must be currently enrolled, in good standing and must document the unusual conditions which justify the petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.



## Developmental Courses

Occasionally, scores obtained from the placement tests indicate a student may not be successful in college. The college reserves the right to require these students to take precollege courses in mathematics, language arts and reading prior to participation in regular college classes.

## Standards of Progress Toward Graduation\*

A student's cumulative grade point average (GPA) is used to evaluate progress. If the grade point average falls below the minimum standards of progress, the work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

### A. For Associate Degree

Hours Attempted	Grade Point Average
1-22 semester hours	1.6
23-33 semester hours	1.7
34-44 semester hours	1.8
45-55 semester hours	1.9
56 & Above	2.0

### B. For Baccalaureate Degree

Hours Attempted	Grade Point Average
1-22 semester hours	1.5
23-44 semester hours	1.6
45-66 semester hours	1.7
67-88 semester hours	1.8
89-110 semester hours	1.9
111 & Above	2.0

\*Students who receive financial aid must comply with federal standards. The above may not reflect those standards.

## Academic Probation, Suspension and Reinstatement

Each student should consider a grade point average of less than 2.0 as a warning. Those falling below the standards of progress toward graduation will be placed on academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the College.

A student receiving academic suspension may not enroll at Missouri Southern for one semester. Re-entry may be denied by the Vice President for Academic Affairs if the student cannot present evidence that indicates a high probability of academic success.

## Repetition of Courses

Students may repeat courses in which grades "F, D, C, or B" have been earned. When a course is repeated, the first grade will not be removed from the record, but the latest grade will be used computing grade point averages.



## 298-398-498 Classes

Classes numbered 298, 398 or 498 may not be counted toward Core Curriculum credit.

## Honor Roll

An Honors or Deans' List, issued at the end of each semester, contains the names of full-time undergraduate students who have a 3.75 grade point average or higher with no "I" grade or a grade below "C."

## Graduation Honors

In recognition of superior scholarships, the College awards honors to associate degree and baccalaureate degree graduates. Honors listed below are not earned until courses are completed, graded and posted on the students' permanent record.

**Associate Degree** — The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern State College. The cumulative grade point average required to receive:

First Honors	.....	3.90-
Second Honors	.....	3.80-3.89
Third Honors	.....	3.70-3.79

**Baccalaureate Degree** - Eligibility for any one of the following three honors requires the candidate to study all the junior and senior years at Missouri Southern and earn a minimum of 60 hours of credit:

Summa Cum Laude	.....	3.90-
Magna Cum Laude	.....	3.80-3.89
Cum Laude	.....	3.70-3.79

## Course Numbers and Levels

Course Numbers:

0- 99	Applicable toward the associate degree only
100-199	Primarily for freshmen
200-299	Primarily for sophomores
300-399	Primarily for juniors
400-499	Primarily for seniors

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Normally, courses numbered 100-299 are considered lower division level courses and those numbering 300-499 are upper division level courses. There are more significant distinctions between the lower and upper division courses than within the levels of the lower and upper division courses.

The student should check the catalog description of the course to see whether the second semester of a sequence course makes the first semester a prerequisite.

Freshmen are not allowed to take any course above the 200 level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered are listed in the catalog. Immediately following each course title is a letter abbreviation of the semester in which the course is usually offered. Students and faculty should use this as a guide in considering future enrollment. However, this should not be interpreted as a contract. Missouri Southern reserves the right to deviate from this commitment when enrollment or other factors dictate.

### **Major or Area of Interest**

All students will be required to declare their degree sought, their major (or area of interest), their status (regular or other) and whether they will attend half-time or full-time.

### **Revised Standards for Veteran's Educational Benefits**

The Revised Standards for Veteran's Educational Benefits as adopted by the State Board of Education on February 17, 1977, are available in the Veteran's Affairs Office. Each Veteran should see the veteran counselor or veterans representative regarding these policies.

Any exceptions to the regulations above must receive written approval from the Vice President for Academic Affairs.

### **Special Policies for Financial Aid Recipients**

Special policies and regulations governing financial aid recipients are filed in the Financial Aid Office, the Business Office and the Office of the Vice President for Student Services.



### **Catalog Time Limit**

A candidate for a degree may use, as a basis for degree requirements, the general catalog issued for any year following the date of the candidate's first registration at MSSC provided it is not more than five years prior to the date the degree is to be conferred. The candidate must have been in residence at MSSC during the year of the catalog selected.

**Transfer Student:** The MSSC catalog in effect at the time of the transfer student's initial enrollment in the sending institution (transfer school), will govern the transfer student's degree requirements. The catalog used may not be dated more than five years prior to the date the degree is to be conferred. The transfer student must have been enrolled in a previous school during the year of the catalog selected.

*The degree requirements in the 1995-96 Catalog became effective June 1, 1995.*

# School of Arts & Sciences



Art  
Biology  
Chemistry  
Communications  
English  
Foreign Languages  
Geography  
Geology  
History  
Mathematics  
Music  
Paralegal  
Philosophy  
Physics  
Political Science  
Social Science  
Sociology  
Theatre

# School of Arts & Sciences

## School Dean

J. Larry Martin  
Hearnes Hall 318, 625-9385

## Degrees and Majors

### Bachelor of Arts

- Art
- Communications
- Chemistry
- English
- History
- Music
- Political Science
- Sociology
- Spanish
- Theatre

### Bachelor of Science

- Biology
- Chemistry
- Mathematics
- Physics
- Sociology

### Bachelor of Science in Education

- Art
- Biology
- Chemistry
- English
- Mathematics
- Music
- Physics
- Social Studies
- Spanish
- Speech-Theatre

### Options and Emphases

- Art (B.A.)
- Studio Art
- Graphic Communications
- Communications (B.A.)
- Speech Communications
- Mass Communications
- Mathematics (B.S.)
- Mathematics
- Computational Mathematics
- Music (B.S.E.)
- Double Certification
- Instrumental
- Vocal
- Social Studies (B.S.E.)
- History
- Political Science
- Sociology

### Minors:

See Departments

### Role

Consisting of seven departments and 13 major disciplines, the School of Arts and Sciences has two primary roles. One is to provide the foundation of all higher education called the liberal arts component or Core Curriculum. The other is to educate students for professional careers and for graduate school. The Core Curriculum at Missouri Southern is designed to meet the needs of the individual and of society, needs which include communicating, critical thinking, clarifying values, functioning within social institutions, using science and technology and using the arts.

### Scope

The School of Arts and Sciences has three principal responsibilities: teaching, research and creative activities and community service.

Quality teaching, the first responsibility, is essential to sound academic programs. Consequently, teaching is important to liberal arts and is the major role of the faculty. In the School of Arts and Sciences, the faculty strive to educate students both deeply within a discipline and widely across disciplines; deeply, to help them achieve excellence and widely, to help them develop a lifelong habit of self education and thus readily adapt to change.

The second responsibility of the School of Arts and Sciences is scholarly research and creative activity. The aim of scholarly research is both improvement of teaching and advancement of knowledge. The aim of creative activity and performance is to enrich the participant's understanding and proficiency both as a teacher and as an artist and to enhance the cultural opportunities of the community.

The third responsibility of the School of Arts and Sciences, one which is closely related to the first two, is community service as an academic and cultural resource. The School functions as an academic resource by consulting and providing academic expertise to help solve community problems. It functions as a cultural resource by presenting to the public films, arts exhibitions, dramatic productions, musical concerts and recitals.



Art Building 303, 625-9563

**Faculty** Bray - Head, Christensen, Fowler, Hess, Noblett, Schwieger

Career opportunities available for the qualified bachelor of arts degree graduates are in commercial art, free-lance and private studio lessons. This degree also prepares the graduate to enter an advanced degree program on the masters level in a specific art discipline. Graduates with a bachelor of science in education degree with a major in art are certified through the teacher education program to teach K-12 in the state of Missouri.

Degree requirements in the four art programs - B.A. (studio emphasis); B.A. (graphic communications); B.S.E. (one of two teaching fields); B.S.E. (single teaching field) - are such that it is extremely important that students majoring in art meet with their faculty advisers each semester. Students are responsible for contacting their adviser after completing 21 semester hours in art to make application for their Junior Review. For this review, students are required to submit a representative sampling of their creative work, a record of academic progress and a statement of intent and/or objectives for examination by a committee of the art faculty. Written permission of the Junior Review Committee is required for a student to enroll in Art 490 Senior Exhibit. The committee meets at the beginning of each fall and spring semester. Entering transfer students must make application for the review during their first semester. Application forms and more detailed information are available in the department of art office, 303 Art Building.

Core Curriculum requirement for non-art majors, for one course in Area 2, Humanities and Fine Arts, is fulfilled by Art 110, Art Appreciation.

**Bachelor of Arts with a Major in Art**  
Emphasis I

	Semester Hours	Studio Art
<b>Core Requirements (p. 41)</b>	<b>51</b>	
Computer Literacy Requirement (determined by art department)	2-3	
Foreign Language (four courses in one language)	12	
<b>Art Requirements</b>	<b>53</b>	
Art 101 Basic Design	3	
Art 105 Design & Color Theory	3	
Art 120 Beginning Ceramics	3	
Art 130 Beginning Drawing	3	
Art 211 Beginning Sculpture*	3	
Art 205 Beginning Jewelry*		
OR		
Art 230 Basic Form*	3	
Art 232 Beginning Painting*	3	
Art Art History or Seminar (upper division)	9	
Art 312 Beginning Printmaking*	3	
Art 490 Senior Exhibit*	2	
Art Electives (300 - 400 level courses)	18	
<b>Electives</b>	<b>9-10</b>	
		<b>128***</b>

\*See Prerequisites

\*\*Must include at least 40 upper division (300 - 400 level) hours.

\*\*\*Satisfies departmental computer literacy requirement (select one).

**Bachelor of Arts with a Major in Art**

Emphasis II Graphic Communications

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
Computer Literacy Requirement-determined by art department	1-3
Foreign Language (four courses in one language)	12
<b>Art Requirements</b>	<b>50</b>
Art 101 Basic Design	3
Art 105 Design & Color Theory	3
Art 130 Beginning Drawing	3
Art 205 Beginning Jewelry*	
OR	
Art 230 Basic Form*	3
Art 240 Typography and Lettering	3
Art Art History or Seminar (upper division)	9
Art 232 Beginning Painting	
OR	
Art 300 Advanced Drawing*	3
Art 421 Life Drawing*	3
Art 310 Watercolor*	3
Art 312 Beginning Printmaking*	3
Art 325 Graphic Communications I*	
Art 350 Graphic Communications II*	3
Art 425 Graphic Communications III*	3

Art 450 Graphic Communications IV*	3
Art 490 Senior Exhibit*	2
<b>Electives**</b>	<b>9-10</b>
<b>Additional Requirement:</b>	
CJAd 210 Basic Photography	3

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**\*\*Suggested Elective Courses:**

Art 120 Beginning Ceramics	3
Art 232 Beginning Painting	3
Art 205 Beginning Jewelry*	3
Art 230 Basic Form	3
Art 211 Beginning Sculpture	3
Art 421 Life Drawing	3
CADD 115 Introductory to CADD	3
GB 320 Business Communications	3
CJAd 340 Basic Color Photography	3
MM 300 Principles of Marketing	3
MM 401 Promotional Strategy	3
Comp 105 Intro to Micro Use****	3
Comp 115 Programming in BASIC****	3

\*See Prerequisites

\*\*\*Must include at least 40 upper division (300-400 level) hours.

\*\*\*\*Satisfies departmental computer literacy requirement (select one).

**Bachelor of Science in Education with a Major in Art**  
Grades K-12 Certification  
Plan B Single Teaching Field

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>
<b>Art Requirements</b>	<b>49</b>
Art 101 Basic Design	3
Art 105 Design & Color Theory	
OR	
Art 230 Basic Form**	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 200 Arts & Crafts	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	2
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History	9
Art 490 Senior Exhibit	2
Art Electives	12
<b>Education Certification Requirements (p. 124-136)</b>	<b>40-41</b>
	<b>137-138</b>

\*Psy 100 satisfies certification requirements and 3 hours of the Core Curriculum. Area 3C

\*\*See Prerequisites included with course descriptions.

**Bachelor of Science in Education with a Major in Art**

Grades K-12 Certification Plan A One of Two Teaching Fields

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>
<b>Art Requirements</b>	<b>41</b>
Art 101 Basic Design	3
Art 105 Design & Color Theory	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 200 Arts & Crafts	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	2
Art 230 Basic Form**	3
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History (upper division)	9
Art Electives	3
<b>Second Teaching Field (some fields exceed 30 hours)</b>	<b>30</b>
<b>Education Certification Requirements (p. 124-136)</b>	<b>40-41</b>
	<b>159-160***</b>

\*Psy 100 satisfies certification requirements and 3 hours of the Core Curriculum. Area 3C

\*\*See Prerequisites included with course descriptions

\*\*\*(Varies with 2nd field)

**Minor in Art**

	Semester Hours
Art 101 Basic Design	3
Art 110 Art Appreciation	
OR	
Art Art History	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 211 Beginning Sculpture*	
OR	
Art 205 Beginning Jewelry*	
OR	
Art 230 Basic Form*	3
Art 232 Beginning Painting*	
OR	
Art 310 Watercolor*	3
Art 312 Beginning Printmaking*	3

\*See Prerequisites included with course descriptions.

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## Minor in Art With Emphasis in Graphic Design

	Semester Hours
Art 101 Basic Design	3
Art 105 Design/Color Theory	3
Art 130 Beginning Drawing	3
Art 240 Typography & Lettering	3
Art 325 Graphic Communications I*	3
Art 350 Graphic Communications II*	3
Art 425 Graphic Communications III*	3
	<b>21</b>

\* See Prerequisites

Recommended Class: Basic Photography

<b>Junior Year</b>			<b>Sophomore Year</b>		
1st Semester			1st Semester		
Foreign Language		3	Beginning Jewelry*		
CORE [Mus 110 Music Apprec]			OR		
OR			Art 320 Basic Form*	3	
CORE [Th 110 Theatre Apprec]	3		Art 240 Typography & Lettering	3	
Comm 305 Intercultural Comm			Elective [GB 105 Typewriting]	3	
OR			CORE [Bio 101 General Biology]	4	
Anth 342 Comparative Cultures			CORE [Eng 271/272 English Lit]	3	
OR					<b>16</b>
GB 310 International Business	3				
Art Electives***	6				
		<b>15</b>			
2nd Semester			2nd Semester		
Art History**	3		Art 232 Beginning Painting		
Art 312 Beginning Printmaking*	3		OR		
Foreign Language	3		Art 300 Advanced Drawing*	3	
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3		Art 412 Life Drawing*	3	
Art Elective***	3		Elective [Art 211 Beg Sculpture]*	3	
		<b>15</b>	CORE [Phys 100 Phys Sci]	5	
			CORE [Eng 281/282 American Lit]	3	
					<b>17</b>

## Junior Year

1st Semester		
Art 110 Art Appreciation		3
Art 310 Watercolor*		3
Art 325 Graphic Comm I*		3
Foreign Language		3
Comm 305 Intercultural Comm		
OR		
Anth 342 Comparative Cultures		
OR		
GB 310 International Business		3
		<b>15</b>

## 2nd Semester

Art History**	3
Art 312 Beginning Printmaking*	3
Art 350 Graphic Comm II*	3
Foreign Language	3
CORE [Soc 110 Intro to Sociology]	3
	<b>15</b>

## Senior Year

1st Semester		
Art History**	3	
Art 490 Senior Exhibit*	2	
CORE [Eng 281/282 American Lit]	3	
Art Electives***	3	
CORE [Econ 180 Amer Econ Sys]	3	
Foreign Language	3	
	<b>17</b>	

## 2nd Semester

Art History**	3
Art Electives***	6
Electives Approved by the adviser***	6
Foreign Language	3
	<b>18</b>

\*See Prerequisites

\*\*9 hours required—select from Art 301, 302, 303 or 304 Art History

\*\*\*Select from 300 or 400 level courses

[Department Recommendations]

<b>Senior Year</b>		
1st Semester		
Art History**	3	
Art 490 Senior Exhibit*	2	
Art 425 Graphic Comm III*	3	
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3	
Elective [MM 300 Prin of Marketing]	3	
Foreign Language	3	
	<b>17</b>	

## 2nd Semester

Art History**	3
Art 450 Graphic Comm IV* ***	3
CORE [Econ 180 Amer Econ Sys]	3
Elective [Bus 320 Bus Comm]	
OR	
Elective [MM 401 Promo Strategy]*	3
CJAd 340 Basic Color Photography	3
Foreign Language	3
	<b>18</b>

\* See Prerequisites

\*\*9 hours required—select from Art 301, 302, 303 or 304 Art History

\*\*\*Satisfies departmental requirement for a computer application course.

[Department Recommendations]

## Suggested Order of Study

### Bachelor of Arts

Major Code 1002

#### Art Major

##### Emphasis I: Studio Art

<b>Freshman Year</b>		
1st Semester		
Course	Hours	
Art 101 Basic Design	3	
Art 130 Beginning Drawing	3	
CORE [Eng 101 Comp I]	3	
CORE [Math 110 Intro to Col Math]	3	
CORE [Hist 110 U.S. History]	3	
CORE [HPER 103 Lifetm Wellness]	2	
	<b>17</b>	
2nd Semester		
Art 105 Design & Color Theory	3	
Art 120 Beginning Ceramics	3	
CORE [Eng 102 Comp II]	3	
CORE [Comm 100 Oral Comm]	3	
CORE [Hist 120 U.S. History]	3	
CORE [HPER 101 Physical Activity]	1	
	<b>16</b>	

##### Sophomore Year

<b>Sophomore Year</b>		
1st Semester		
Art 205 Beginning Jewelry*		
OR		
Art 230 Basic Form*	3	
Art 232 Beginning Painting*	3	
CORE [Bio 101 General Biology]	4	
CORE [Comp 105 Comp Literacy]	3	
Art Electives approved by the adviser***	3	
	<b>16</b>	
2nd Semester		
Art 110 Art Appreciation	3	
Art 211 Beginning Sculpture*	3	
CORE [Phys 100 Fund of Phys Sci]	5	
CORE [Soc 110 Intro to Sociology]	3	
Art Electives***	3	
	<b>17</b>	

<b>Freshman Year</b>		
1st Semester		
Course	Hours	
Art 101 Basic Design	3	
Art 130 Beginning Drawing	3	
CORE [Eng 101 Comp I]	3	
CORE [Math 110 Intro to Col Math]	3	
CORE [Hist 110 U.S. History]	3	
CORE [HPER 103 Lifetm Wellness]	2	
CORE [Psy 120 College Orient]	1	
	<b>18</b>	
2nd Semester		
Art 105 Design & Color Theory	3	
CJAd 210 Basic Photography	3	
CORE [Eng 102 Comp II]	3	
CORE [Comm 100 Oral Comm]	3	
CORE [Hist 120 U.S. History]	3	
CORE [HPER 101 Physical Activity]	1	
	<b>16</b>	

**Bachelor of Science in Education**

Major Code 0831

**Art Major (Plan B)****Single Teaching Field****Grades K-12 Certification****Freshman Year**

1st Semester

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
Art 101	Basic Design	3
CORE	[Eng 101 Comp II]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Psy 120 College Orient]	1
		<b>16</b>

2nd Semester

Art 110	Art Appreciation	3
Art 130	Beginning Drawing	3
Art 105	Design & Color Theory	
OR		
Art 230	Basic Form*	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 101 Physical Activity]	1
Psy 305	Developmental Psychology	3
		<b>19</b>

**Sophomore Year**

1st Semester

Take C-Base test.

Educ 200	Orientation to Educ II	1
Art 200	Arts & Crafts	3
Art 220	Art Education	2
Art	Elective	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		<b>19</b>

2nd Semester

Apply for admission to Teacher Education.

Educ/Psy 302	The Exceptional Child	2
Educ 401	Computer Software***	2
If computer literacy requirement is not met in the specialty department.		
Art 211	Beginning Sculpture*	3
Art 232	Beginning Painting*	3
CORE	[Eng 281/282 American Lit]	3
CORE	[Phys 100 Fund of Phys Sci]	5
		<b>18</b>

**Junior Year**

1st Semester

Pass media competencies.

Psy 310	Educational Psychology	2
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Note: See Ed 420 below****		
Art	Art History**	3
Comm 305	Intercultural Comm	
OR		
Anth 342	Comparative Cultures	
OR		
GB 310	International Business	3
		<b>16</b>

## 2nd Semester

Educ 422	Tch Reading in the Sec Sch	2
Art 120	Beginning Ceramics	3
Art	Art History**	3
Art 312	Beginning Printmaking*	3
Art	Elective	3
CORE	[Econ 180 Amer Econ Sys]	3
		<b>17</b>

**Senior Year**

1st Semester

*Apply for student teaching. All course work must be completed except for professional semester courses.*

Art	Art History**	3
Art 490	Senior Exhibit*	2
Art	Elective	6
CORE	[Eng 271/272 English Lit]	3
CORE	[Hist 120 U.S. History]	3
		<b>17</b>

## 2nd Semester

Educ 337	Tchng Art in the Sec Sch	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Select one:		
Educ 412	Indivi Curri Dev (2)	
OR		
Educ 420	Intro to Counseling**** (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching K-12	8
		<b>16-17</b>

\*See Prerequisites

\*\*9 hrs. required—select from Art 301, 302, 303 or 304 Art History

\*\*\*Satisfies departmental requirement for a computer application course.

\*\*\*\*Offered at night only. Must be taken the semester prior to student teaching.  
[Departmental Recommendations]

After accumulating 21 hrs. in art, students must make application for their Junior Review via their adviser.

Consult catalog for requirement for Plan A (Art instruction/certification for one of two teaching fields).

For additional information contact:

Mr. Jim Bray  
Office: Art Building 303  
Phone: 625-9563**Course Descriptions**

Art 105 (F and/or S) 3 hrs. cr.

**Design and Color Theory**

Foundation studio course dealing with the theories, problems and applications of color. Six studio hrs. per week. Lab fee required.

Art 110 (F, S)

3 hrs. cr.

**Art Appreciation**

A survey designed to increase appreciation of the visual arts through readings, slide lectures, library research and visits to the George A. Spiva Center for the Arts. Development of the cognitive and critical processes as they relate to the visual arts are emphasized. Specially recommended toward meeting Core Curriculum requirements for non-art majors.

Art 120 (F and/or S)

3 hrs. cr.

**Beginning Ceramics**

Methods and techniques of throwing and/or hand building with application of glazing and firing. Six studio hrs. per week. Lab fee required.

Art 130 (F and/or S)

3 hrs. cr.

**Beginning Drawing**

Development of perceptual drawing skills through the study of line, value, perspective, composition and reduction of form using various media. Six studio hrs. per week.

Art 200 (F or S)

3 hrs. cr.

**Arts & Crafts**

Basic crafts survey exploring materials and processes of traditional and contemporary handicrafts.

Art 205 (F and/or S)

3 hrs. cr.

**Beginning Jewelry Design/Metalsmithing**

Creative exploration of design fabrications, casting and forging processes. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101 and/or Art 105 or approval of instructor.

Art 211 (F and/or S)

3 hrs. cr.

**Beginning Sculpture**

Exploration of forming methods involving wood, clay, plaster and mixed media with emphasis on additive and subtractive techniques. Six studio hrs. per week. Lab fee required. Prerequisite: Art 105 and/or Art 230, or approval of instructor.

Art 220 (F, S)

2 hrs. cr.

**Art Education**

Creative art activities using media and processes with emphasis on methods of instructing art in elementary school. Required for both elementary education majors and secondary art education majors. Lab fee required.

Art 230 (F and/or S)

3 hrs. cr.

**Basic Form**

Studio exploration of the relationships of parts to form. Projects include two and three dimensional problems. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101.

Art 232 (F and/or S)

3 hrs. cr.

**Beginning Painting**

Procedures, techniques, historical processes and basic fundamentals of painting with oil. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101 and Art 130.

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Art 240 <b>Typography and Lettering</b> A studio course introducing the art of lettering/typography. Designed to develop the skills needed to competently use the tools, materials and methods employed by professionals in rendering layouts and comprehensives. All assignments use lettering or typography as the primary design element. Six studio hrs. per week. Lab fee required.	3 hrs. cr.	Art 321 (F and/or S) <b>Advanced Sculpture</b> Extension of Beginning Sculpture with introduction to the lost wax technique of casting bronze sculpture. Each student is permitted to cast one piece per semester. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 211.	3 hrs. cr.	Art 421 (F and/or S) <b>Life Drawing</b> Drawing and/or painting the human figure with emphasis on anatomy, structure and form. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisites: Art 130 and Art 232 or Art 300.	3 hrs. cr.
Art 300 (F and/or S) <b>Advanced Drawing</b> Advanced investigation of various drawing elements including compositions, structure and aesthetics. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 101 and Art 130 or approval of instructor.	3 hrs. cr.	Art 322 (F and/or S) <b>Advanced Sculpture</b> Continuation of Art 321. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs.	3 hrs. cr.	Art 425 (F) <b>Graphic Communications III</b> Continued study of Graphic Communications II with an emphasis on the design and preparation of two and three-dimensional projects for printing and/or video reproduction. Includes an introduction to computer-aided graphic techniques and equipment. Six studio hrs. per week. Lab fee required. Prerequisite: Art 350.	3 hrs. cr.
Art 301 (F, Even) <b>Art History, Prehistoric Through Gothic</b> Historic survey of the visual arts from prehistoric through the Middle Ages. Primarily in the Near East, North Africa and Europe.	3 hrs. cr.	Art 325 (F) <b>Graphic Communications I</b> Introduction to commercial art with an emphasis on the recognition, duplication, function and aesthetic use of typography/pictorial images as a visual language. Includes lettering, layout and type/image relationships. Six studio hrs. per week. Lab fee required. Prerequisite: Art 101, Art 105 and Art 130.	3 hrs. cr.	Art 430 (F and/or S) <b>Advanced Printmaking</b> Stencils (silkscreen), lithographic, advanced intaglio, relief and monoprint processes. Advanced studio methods for color registration and mixed media procedures. Emphasis on design, drawing concept, technical proficiency and presentation. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 312 or approval of instructor.	3 hrs. cr.
Art 302 (S, Odd) <b>Art History, Renaissance Through Baroque</b> Historical survey of the visual arts of Europe from the Early Renaissance through the Baroque and Rococo. Comparative study of other cultures included.	3 hrs. cr.	Art 330 (F and/or S) <b>Advanced Jewelry Design/Metalsmithing</b> Exploration of advanced methods and techniques of complex forms for jewelry and metalsmithing design. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 205 or approval of instructor.	3 hrs. cr.	Art 440 (F and/or S) <b>Special Projects in Art II</b> Same as Art 420. May be repeated for a total 6 credit hrs. Lab fee may be required.	3 hrs. cr.
Art 303 (F, Odd) <b>Art History, 19th Century</b> Historic survey of the visual arts of Western Europe and the United States focusing primarily upon the styles of Neo-Classicism, Romanticism, Realism, Impressionism and Post-Impressionism.	3 hrs. cr.	Art 350 (S) <b>Graphic Communications II</b> Continued study of Graphic Communications I with an emphasis on the design and preparation of two-dimensional projects for printing and/or video reproduction. Includes an introduction to the development of an individual portfolio. Six studio hrs. per week. Lab fee required. Prerequisite: Art 325.	3 hrs. cr.	Art 450 (S) <b>Graphic Communications IV</b> Advance study of graphic design layout, production and/or video reproduction. Includes advanced projects with computer-aided graphic techniques and equipment. Completion of an individual portfolio is required. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 425.	3 hrs. cr.
Art 304 (S, Even) <b>Art History, 20th Century</b> Study of the mainstreams of Western Art in Europe and the United States, including its sources and influences. Emphasis placed on the succession of modernist art movements in France and Germany from 1900 to 1945 and in the United States from 1945 to present.	3 hrs. cr.	Art 401 (F and/or S) <b>Advanced Painting</b> Students select an individual problem for self-development using a variety of media. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 130 and Art 232.	3 hrs. cr.	Art 475 (Demand) <b>Graphic Communications Internship</b> An off-campus work experience in a professional setting for advanced art majors with a graphic communications emphasis. All internships must conform with institutional policy regarding the number of hrs. per credit and with contractual agreements involving the cooperating organization. Prerequisite: 6 hrs. of graphic communications, junior standing or above and approval of departmental committee.	1-8 hrs. cr.
Art 305 (Demand) <b>Seminar</b> Student art problems investigated with group participation. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 21 credit hrs. in art. Strongly recommended by the art faculty.	3 hrs. cr.	Art 407 (F and/or S) <b>Advanced Ceramics</b> Advanced methods, techniques and procedures of pottery making and design in clay. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 120 or approval of instructor.	3 hrs. cr.	Art 490 (F) <b>Senior Exhibit</b> Prepares senior art majors for their exhibit which is normally scheduled during spring in the Spiva Art Gallery. One hr. lecture, 2 hrs. of studio per week. Prerequisite: Senior standing and permission of the Junior Review Committee.	2 hrs. cr.
Art 310 (F or S) <b>Transparent Watercolor</b> Techniques and aesthetic processes of watercolor painting using landscape, figures and still lifes as subjects. Six studio hrs. per week. Lab fee required. May be repeated for a total of six credit hrs. Prerequisite: Art 130 or permission of instructor.	3 hrs. cr.	Art 420 (F and/or S) <b>Special Projects in Art I</b> Advanced studio survey selected by the student in a particular area of art. Students attend a regularly scheduled course of related content but complete an independent special project approved by the instructor. Requirements: (1) an exhibit of the special project two weeks before the end of the semester and (2) a formal paper documenting the special project(s). Prerequisite: Completion of 2 advanced courses in the same area of concentration and approval of instructor and department head. Lab fee required. May be repeated for a total of 6 credit hrs.	3 hrs. cr.	Art 499 (F and/or S) <b>Independent Study</b> An in-depth study of some specialized topic or project not considered in the art department course offerings. An adviser from the art faculty will structure the independent study with the approval of the department head. Prerequisite: At least 90 hours completed and an overall cumulative GPA of 3.0 or higher. Enrollment must be approved by the department head and school dean.	1-3 hrs. cr.

## Biology

Reynolds Hall 210, 625-9376

**Faculty** Messick - Head, Adams, Fletcher, Gibson, Jackson, Lawson, Prentice, Schlink, Stebbins, Tillman, Wells

Biology, biology education and environmental health technology majors take a required core of fundamental courses. Requirements to complete these majors allow students to specialize and prepare for graduate school, professional school or specific careers. Support courses in mathematics and the physical sciences supplement courses in the major.

The biology department offers Bio 101, General Biology, to satisfy the Core Curriculum requirement of a biological science course with a laboratory. Bio 121, General Zoology, satisfies the biological science requirement for students in nursing and certain other majors.

### Bachelor of Science with a Major in Biology

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>
<b>Computer Literacy Requirement determined by biology department</b>	<b>39</b>
<b>Biology Requirements</b>	<b>40</b>
Bio 101 General Biology	4
Bio 112 Botanical Survey**	3
Bio 122 Zoological Survey**	3
Bio 210 Molecular & Cellular Biology**	4
Bio 231 General & Medical Microbiology**	5
Bio 305 Genetics**	4
Bio 490 Seminar**	1
Bio Upper Division Botany Elective**	3-4
Bio Upper Division Zoology Elective**	4-5
Bio Upper Division Environmental Elective**	4
Bio Electives	3-5
<b>Supporting Requirements</b>	<b>25</b>
Math 140 Algebra and Trig** (Math 112 + Math 130 = Math 140)	
OR	
Math 150 Calculus with Analytic Geometry I**	5
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5

Chem 300	Intro to Modern Organic Chemistry**	
OR		
Chem 301	Organic Chemistry I**	5
Phys 151	Elem College Physics I**	5
<b>Electives</b>	<b>21-22</b>	
	<b>128***</b>	

\*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include at least 40 upper division (300 - 400 level) hrs.

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

Preprofessional students should take Chem 302 and Phys 152. Preveterinary medicine majors must complete Bio 261 Animal Nutrition and Chem 351 Biochemistry.

### Bachelor of Science in Education with a Major in Biology

Grades 9-12 Certification

Unified Science With an Endorsement in Biology - (Effective September 1, 1997; see adviser for requirements prior to effective date)

### Bachelor of Science in Education with a Major for Single Teaching Field

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>36</b>
<b>Computer Literacy requirement - determined by biology department</b>	<b>2-3</b>
<b>Biology Requirements</b>	<b>37-40</b>
<b>Required Biology Courses (All Endorsements)</b>	<b>10</b>
Bio 101 General Biology	4
Bio 112 Botanical Survey**	3
Bio 122 Zoological Survey**	3
<b>Microbiology, Genetics, Cell Biology &amp; Biochemistry, and Evolution</b>	<b>18</b>
Bio 305 Genetics**	4
Bio 210 Molecular and Cellular Biology**	4
Bio 231 General and Medical Microbiology**	5
Bio 306 Human Physiology and Anatomy**	5
OR	
Bio 331 Comparative Vertebrate Anatomy**	5

### Botany - select one:

3-4

Bio 271	Principles of Plant Propagation (3)**
Bio 316	Economic Botany (3)**
Bio 322	Taxonomy of Flowering Plants (4)**
Bio 371	Plant Physiology (4)**
Bio 440	Plant Pathology (4)**

### Ecology - select one:

4

Bio 312	Environmental Biology (4)**
Bio 402	General Ecology (4)**
Bio 481	Aquatic Ecology (4)**

### Investigation

2-4

### Supporting Requirements

40

Phil 420	Philosophy of Science**
OR	
Approved Substitute	3
Math 140 Algebra and Trig** (Math 112 + Math 130 = Math 140)	5
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 300 Intro to Modern Organic Chemistry	

OR	
Chem 301 Organic Chemistry I	5
Phys 151 Elem College Physics I**	5
Phys 152 Elem College Physics II**	4
Geo 110 Intro to Geology	5
Phys 180 Intro to Meteorology	3
<b>Education Requirements (p. 124-136)</b>	<b>39-41</b>
	<b>155-161</b>

\*Required courses in biology, chemistry, mathematics, physics and psychology satisfy major requirements and 15 hrs. of the Core Curriculum.

\*\*See Prerequisites

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

## Environmental Health Technology

See page 162.

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## Minors in Biology

### Minor in Biology (botany-horticulture emphasis)

		Semester Hours
Chem 100	Introductory Chemistry	5
Bio 101	General Biology	4
Bio 112	Botanical Survey*	3
Bio 316	Economic Botany*	3
Bio 271	Prin of Plant Propagation*	3
Bio 440	Plant Pathology*	4
Bio 322	Taxonomy of Flowering Plants*	4
Bio 332	Intro to Entomology*	4
Bio 499	Problems in Biology (1-3)*	
OR		
Bio 450	Internship in Biology (1-8)*	1-8
		31-38

Bio 380	Epidemiology (2)*	19-22
Bio 433	Histology (4)* **	
Bio 462	Embryology (5)* ***	
Bio 481	Aquatic Ecology (4)* ***	

\*See prerequisites

\*\*Satisfies upper division zoology requirement for biology major

\*\*\*Satisfies upper division environmental requirement for biology major

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three WI classes. Two of the three must be upper division and at least one of the two must be in the major.

2nd Semester

Bio 431 Animal Physiology (Bio 331)

OR Histology (Bio 112, 122)

OR Embryology (Bio 331)

Bio 462 Embryology (Bio 331) 4-5

Bio 322 Plant Taxonomy 4

CORE [Humanities and Fine Arts] 3

CORE [Humanities and Fine Arts] 3

CORE [Hist 320 U.S. 1877-Present] 3

17-18

18

### Senior Year

1st Semester

Bio 362 Virology (Bio 231, 305) 4

Bio 371 Plant Phys (Bio 112, 210) 4

Bio 490 Seminar (consent) 1

Bio Electives 2

CORE [Behavioral Science] 3

CORE [HPER 103 Lifetm Wellness] 2

16

17

## Suggested Order of Study

### Bachelor of Science

Major Code 0401

### Biology Major

#### Freshman Year

1st Semester

Course		Hours
Bio 101	General Biology	4
CORE	[Eng 101 Comp I]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Hist 110 U.S. History]	3
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		15

2nd Semester

Bio 122	Zoological Survey (Bio 101)	3
Math 140	Algebra and Trig	5
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		17

#### Sophomore Year

1st Semester

Bio 12	Botanical Survey (Bio 101)	3
Bio 231	Gen & Med Micro (Bio 101)	5
Chem 101	Gen Chemistry I (Math 140)	5
CORE	[Econ 180 Amer Econ Sys]	3
		16

2nd Semester

Bio 305	Genetics (Bio 101)	4
Bio 210	Molecular & Cellular Bio (Bio 112, 122, Chem 102)	4
Chem 102	Gen Chem II (Chem 101)	5
Bio 303	Comp App in Bio (consent)	
OR		
	Approved computing course	2-3
		15-16

#### Junior Year

1st Semester

Bio 331	Compar Verte Anat (Bio 122)	5
Chem 301	Org Chemistry I (Chem 102)	5
Phys 151	Elem Col Phys I (Math 140)	5
CORE	[International Cultural Stu]	3
		18

### Bachelor of Science in Education

Major Code 0840

### Unified Science with Biology Endorsement (Effective September 1, 1997) and Grades 7-9 Certification

#### Freshman Year

1st Semester

Course		Hours
Bio 101	General Biology	4
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1877-Pres]	3
Educ 100	Orientation to Education	1
Psy 100	General Psychology	3
CORE	[Comm 100 Oral Comm]	3
Psy 120	College Orientation	1
		18

2nd Semester

Bio 122	Zoology Survey (Bio 101)	3
Bio 231	Gen/Med Microbio (Bio 101)	5
CORE	[Humanities and Fine Arts]	3
Math 140	Algebra & Trig	5
Psy 301	Adolescent Psychology	3
		17

#### Summer Semester

CORE	[Humanities & Fine Arts]	3
CORE	[Eng 102 Comp II]	6

## Sophomore Year

### 1st Semester

#### Take C-Base Test.

Bio 112	Botanical Survey (Bio 101)	3
Chem 101	Gen Chem I (Math 130 or 140)	5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[HPER 101 Physical Activity]	1
Educ 200	Orientation to Education II	1
Phys 151	(Elem Col Phys I)	5
		<b>18</b>

### 2nd Semester

#### Apply for admission to teacher education.

Phys 152	(Elem College Physics II)	4
Bio 305	(Genetics)	4
Bio 303	Comp App in Bio (consent)	
OR		
Educ 401	Computer Software	
OR		
Approved computing course		2-3
Chem 102	(Gen Chem II)	5
Educ 302	[Psy 302] The Excep Child	2
		<b>17-18</b>

### Summer Semester

CORE	[Humanities and Fine Arts]	3
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## Junior Year

### 1st Semester

#### Pass Media Competencies.

Bio 210	Molec & Cellular Bio (Bio 122, 122, Chem 102)	4
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
CORE	[HPER 103 Lifetm Wellness]	2
Psy 310	Education Psychology	2
Phil 402	Philosophy of Science	
OR		
Approved Substitute		3
		<b>19</b>

### 2nd Semester

Bio 402	General Ecology (Bio 112, 122)	
OR		
Approved Ecology Elective		4
Bio 322	Taxonomy of Flowering Plants	
OR		
Approved Botany Elective		3-4
Educ 422	Tchng Rdng in Sec School	2
Chem 300	Intro to Mod Org Chemistry	5
		<b>14-15</b>

### Summer Semester

CORE	[Econ 180 Amer Econ System]	3
CORE	[Hist 320 U.S. 1877-Present]	3
Bio 499	Problems in Biology	2
		<b>8</b>

## Senior Year

### 1st Semester

#### Apply for student teaching. All course work must be completed except for Professional Semester courses.

Bio 306	Human Physiology & Anatomy (Bio 121 or consent)	
OR		
Bio 331	Compar Vertebrate Anatomy (Bio 122)	5
Phys 180	Intro to Meteorology	3
Geo 110	Intro to Geology	5
CORE	[International Cultural Stud]	3
		<b>16</b>

### 2nd Semester

Educ 333	Tching Sci in Sec Sch	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Select One:		
Educ 412	Indivi Curr Development (2)	
OR		
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 462	Stu Tchng in Sec School	8
		<b>17-18</b>

\*Offered at night only. Must be taken prior to student teaching.  
(Prerequisites)  
[Department Recommendations] -not necessarily in this order

Program must satisfy Writing Intensive requirements. (See page 41).

## Premedicine

### Major Code 7005

## Predentistry

### Major Code 7002

## Preveterinary

### Major Code 7005

This program will also qualify the student for the bachelor of science in biology, major code 0401.

## Freshman Year

### 1st Semester

Course		Hours
Bio 101	General Biology	4
Chem 101	Gen Chem I (Math 140)	5
Math 140	Algebra & Trig	
OR		
Math 150	Calc w/Analytic Geom	5
CORE	[HPER 101 Physical Activity]	1
Psy 120	College Orientation	1
		<b>16</b>

### 2nd Semester

Bio 122	Zoological Survey (Bio 101)	3
Chem 102	Gen Chem II (Chem 101)	5
CORE	[Psy 100 Gen Psychology]	3
CORE	[Eng 101 Comp I]	3
		<b>14</b>

### Summer Semester

CORE	[Comm 100 Oral Comm]	3
CORE	[Humanities and Fine Arts]	3
		<b>6</b>

## Sophomore Year

### 1st Semester

Bio 112	Botanical Survey (Bio 101)	3
Bio 231	Gen & Med Micro (Bio 101)	5
Phys 151	Elem Col Phys I (Math 140)	5
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Eng 102 Comp II]	3
		<b>18</b>

### 2nd Semester

Bio 305	Genetics (Bio 101)	4
Phys 152	Elem Phys II (Phys 151)	4
Bio 303	Comp App in Bio (consent)	
OR		
Approved computing class		2-3
Bio 210	Molecular & Cellular Bio (Bio 122, 122, Chem 102)	5
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. 1877-Present]	3
		<b>17-18</b>

### Summer Semester

CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. 1877-Present]	3
		<b>6</b>

## Junior Year

### 1st Semester

Bio 331	Compar Anatomy (Bio 122)	5
Chem 301	Org Chem I (Chem 102)	5
CORE	[Econ 180 Amer Econ Sys]	3
Bio 362	Virology (Bio 231, 305)	4
		<b>17</b>

### 2nd Semester

Bio 456	Immunology (Bio 231, 305)	3
Chem 302	Org Chem II (Chem 301)	5
Bio 462	Embryology (Bio 331)	5
		<b>13</b>

## Senior Year

### 1st Semester

Bio 316	Economic Botany (Bio 112)	3
Bio 431	Animal Physi (Bio 331)	(5)
OR		
Bio 433	Histology (Bio 112, 122)	(4)5-4
Bio 490	Seminar (consent)	1
Chem 201	Analy Chem I (Chem 102)	5
		<b>13-14</b>

### 2nd Semester

Bio 402	Gen Ecology (Bio 112, 122)	4
CORE	[International Cultural Stud]	3
CORE	[Hist 320 U.S. 1877-Present]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Math 310	Elem Statistics (Math 130)	3
		<b>16</b>

\*Preveterinary students also must enroll in Bio 261 Animal Nutrition and Chem 351 Biochemistry prior to acceptance at the University of Missouri Veterinary School. Chem 300 Intro to Modern Organic Chemistry can replace Chem 301 Organic Chemistry I and Chem 302 Organic Chemistry II.

Students also should check with the premedicine adviser about specific professional schools. Individual schools may have other specific requirements.

Program must satisfy Writing Intensive requirements. (See page 41).

[Department Recommendations]  
(Prerequisites)

# 58 / Biology

For additional information contact:  
 Dr. Vonnie R. Prentice (Premedicine)  
 Office: Reynolds Hall 320  
 Phone: 625-9539  
 Or  
 Dr. Gerald Schlink  
 Office: Reynolds Hall 313B  
 Phone: 625-9764

Dr. Gerald Schlink (Premedicine)  
 Office: Reynolds Hall 313B  
 Phone: 625-9764

Dr. Scott Wells (Preveterinary)  
 Office: Reynolds Hall 309  
 Phone: 625-9510

Mr. David Tillman (Predental)  
 Office: Reynolds Hall 317D  
 Phone: 625-9698

## Preoptometry Major Code 7006

This program also will qualify the student for the bachelor of science in biology.

### Freshman Year

1st Semester	Course	Hours
Bio 101	General Biology*	4
Chem 101	Gen Chem I (Math 140)*	5
Math 140	Algebra & Trig	5
Psy 120	College Orientation	1
CORE	[HPER 101 Physical Activity]	1
		<b>16</b>

### 2nd Semester

Bio 122	Zoological Survey (Bio 101)	3
Chem 102	Gen Chem II (Chem 101)*	5
CORE	[Eng 101 Comp I]*	3
CORE	[Psy 100 GenPsychology]*	3
CORE	[Comm 100 Oral Comm]*	3
		<b>17</b>

### Sophomore Year

1st Semester	Course	Hours
Bio 112	Botanical Survey (Bio 101)*	3
Bio 305	Genetics (Bio 101)	4
CORE	[Eng 102 Comp II]*	3
Math 150	Calc w/Analy Geomtry (Math 140)*	5
CORE	[HPER 103 Lifetm Wellness]	2
		<b>17</b>

### 2nd Semester

Bio 231	Gen & Medi Micro (Bio 101)	5
Bio 210	Molecular & Cellular Bio (Bio 112, 122, Chem 102)*	4
Bio 303	Comp App in Bio (consent)	
OR		
Approved computing class		2-3
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Hist 110 U.S.1877-Present]*	3
		<b>17-18</b>

### Summer Semester

Phys 151	Elem Col Phys I (Math 140)*	5
Psy 120	College Orientation	1
		<b>16</b>

### Junior Year

1st Semester	Course	Hours
Chem 301	Org Chem I (Chem 102)*	5
Bio 331	Comparative Anatomy	5
Bio 433	Histology (Bio 112, 122)	4
Psy 300	Child Development	
OR		
Psy 301	Adolescent Psychology	3
		<b>17</b>

### 2nd Semester

Course	Hours
Phys 152	Elem Col Phys II (Phys 151)*
Chem 302	Org Chem II (Chem 301)
Bio 456	Immunology (Bio 231, 305)
Math 310	Elem Statistics*
CORE	[Humanities and Fine Arts]
	<b>19</b>

### Senior Year

1st Semester	Course	Hours
Bio 316	Economic Botany (Bio 112)	3
Bio 431	Animal Physiology (Bio 331)	5
Bio 490	Seminar	1
CORE	[International Cultural Stud]	3
CORE	[Hist 320 U.S. 1877-Present]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		<b>18</b>

### 2nd Semester

Course	Hours
Bio 402	General Ecology (Bio 112, 122)
OR	
Bio 481	Aquatic Ecology (Bio 122)
Bio 306	Human Phys & Anat (Bio 121 or consent)
Electives	
CORE	[Humanities and Fine Arts]
	<b>18</b>

\*Indicates courses which satisfy minimum requirements for admission into some optometry schools. Application may be made with 90 semester hours. Strong preference is given to applicants who hold the bachelor's degree. Check with adviser for variations among schools.

[Department Recommendations]  
 (Prerequisites)

Program must satisfy Writing Intensive requirements. (See page 41).

For additional information contact:

Dr. E. Sam Gibson (Preoptometry)  
 Office: Reynolds Hall 317C  
 Phone: 625-9699

### 2nd Semester

CORE	Hours
Psy 311	[Eng 102 Comp II]
OR	Applied Statistics-Behavioral & Natural Science
CORE	[PSc 120 Gov't: U.S./Sta/Loc]
Chem 101	Gen Chem I (Math 140)
CORE	[Comm 100 Oral Comm]
	<b>17</b>

### Summer Semester

Bio 231	Hours
Gen & Med Micro (Bio 101 or 121)	3
Bio 306	Human Phys & Anatomy (Bio 121 or consent)
	<b>5</b>

### Sophomore Year

1st Semester	Course	Hours
Phys 151	Elem College Physics	5
Psy 221	Psych of Per Adjustment	3
CORE	[Humanities and Fine Arts]	3
Chem 102	Gen Chem II (Chem 101)	5
HPER 103	[Lifetm Wellness]	2
		<b>18</b>

### 2nd Semester

Bio 210	Hours
Molecular & Cellular Bio (Bio 101 or 121, Chem 102)	4
CORE	[Humanities and Fine Arts]
CORE	[HPER 101 Physical Activity]
Phys 152	Elem Col Phys II (Phys 151)
Soc Sci Elective	
	<b>18</b>

Residents of Missouri usually apply for admission to the Physical Therapy School, University of Missouri-Columbia or other physical therapy schools within the state. Residents of other states should consult with Mr. Tillman, department of biology, as individual schools of physical therapy may require different prerequisites. Completion of the above course does not automatically admit an applicant into the physical therapy program at the University of Missouri.

[Department Recommendations]  
 (Prerequisites)

For additional information contact:

Mr. David Tillman

Office: Reynolds Hall 317D

Phone: 625-9698

### Preagriculture

Major Code 7001

### Prepharmacy

Major Code 7007

Preagriculture and prepharmacy programs at Missouri Southern are designed to match the plans of individual students. See page 173.

For additional information contact:

Dr. Gerald Schlink (Preagriculture)

Office: Reynolds Hall 313B

Phone: 625-9764

Dr. John Messick (Prepharmacy)

Office: Reynolds Hall 215

Phone: 625-9617

## Course Descriptions

Bio 101 (F, S) 4 hrs. cr.

### General Biology

General treatment of unifying principles of living organisms including cell structure and function, metabolism, genetics, evolution and ecology. Emphasis on these biological principles as they relate to humans. Three lectures, one 2-hr. lab per week. Fulfills Core Curriculum requirement in Area 3, section A for most majors.

Bio 112 (F, S) 3 hrs. cr.

### Botanical Survey

Morphology, physiology and classification of plants are studied with emphasis on diversity of plants. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

Bio 121 (F, S) 4 hrs. cr.

### General Zoology

Introduction to the basic principles of human cytology, histology, metabolism and genetics. Emphasis on anatomy and physiology of humans in preparation for Bio 306. Three lectures, one 2-hr. lab per week. Fulfills Core Curriculum requirement for physical education and certain health related technology majors.

Bio 122 (F, S) 3 hrs. cr.

### Zoological Survey

Morphology, physiology and classification of animals with emphasis on the diversity of animals. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101 or 121.

Bio 210 (F, S) 4 hrs. cr.

### Molecular and Cellular Biology

(Writing Intensive)

Physiological characteristics and function at the cellular and molecular levels of both plant and animal cells. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112, 122, Chem 102.

Bio 231 (F, S) 5 hrs. cr.

### General and Medical Microbiology

For students interested in medical professions. Topics include general principles of microbiology, immunology and identification of microorganisms. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 101 or 121.

Bio 240 (S) 3 hrs. cr.

### Radiation Biology

Survey of various types of radiation affecting humans, the uses of radiation and methods for monitoring radiation levels. Emphasis on the physiological damage that occurs to tissues following ionizing radiation. Three lectures per week. Prerequisites: Five hrs. of chemistry or acceptance into the School of Radiologic Technology.

Bio 261 (Demand) 3 hrs. cr.

### Animal Nutrition

Biochemistry and fundamental principles of animal nutrition with special emphasis given to livestock feeding and production. Three lectures per week. Prerequisite: Chem 300 or 301 or permission. (Does not count toward any biology major.)

Bio 271 (Demand) 3 hrs. cr.

### Principles of Plant Propagation

Principles of plant propagation, emphasizing three specific areas: the physiology of plant growth and the anatomy of plants as topics related to propagation; propagation methods; and technical skills such as budding, grafting and making cuttings. Two lectures, one 2-hr. lab per week. (Does not count toward a biology major.)

Bio 290 (Demand) 2 hrs. cr.

### Research Methods in Biology

Development of investigational and technical skills required in biology and related fields. Students learn to use the library and to prepare proposals and reports. Familiarizes students with field and laboratory techniques, research design and statistical analysis. Lecture and lab equivalent to 2 hrs. of lecture per week. Recommended for students who wish to enroll in Bio 499 Problems in Biology. Prerequisite: Bio 112 or 122.

Bio 298 (Demand) 1-8 hrs. cr.

### Selected Topics in Biology

Specific topic or topics not normally included in another course. Prerequisites: Bio 112 and 122 or permission.

Bio 303 (Demand) 2 hrs. cr.

### Computer Applications in Biology

Explores ways in which microcomputers are used to better understand and study biological phenomena. Develops computer literacy and technical expertise required in research, graduate school, teaching and in many other occupations. One lecture, 3-hrs. of lab per week. Prerequisites: Bio 101 and an introductory course in computing or permission.

Bio 305 (F, S) 4 hrs. Cr.

### Genetics

(Writing Intensive)

Introduction to principles of heredity, gene structure, expression and regulation. Emphasis on cytological and molecular approaches to nucleic acid replication, transcription, translation and other genetic mechanisms. Lab exercises illustrate genetic principles and techniques used in modern genetic research. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

Bio 306 (F, S) 5 hrs. cr.

### Human Physiology and Anatomy

Structure and function of the human body with emphasis on physiological processes and their anatomical basis. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include Bio 306 or 431, but not both. Prerequisite: Bio. 121 or permission.

Bio 308 (Demand) 4 hrs. cr.

### Pathophysiology

Altered physiological states, the cellular manifestations and causes of disease and adaptation to the alterations. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 306.

Bio 312 (F) 4 hrs. cr.

### Environmental Biology

(Writing Intensive)

Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 112 and 122 or permission. (Double listed in Environmental Health Technology.)

Bio 316 (F) 3 hrs. cr.

### Economic Botany

Economic uses of plants and present and possible future value of lower plants. Emphasis on economic aspects of higher plants from an agricultural, horticultural and crop selection viewpoint as well as from a view of pharmacological usage, etc. Three lectures a week. Prerequisite: Bio 101.

Bio 322 (S) 4 hrs. cr.

### Taxonomy of Flowering Plants

Relationships among selected plant groups with emphasis on classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora emphasized. Two lectures, two 2-hr. labs per week. Prerequisite: Bio 112.

Bio 331 (F) 5 hrs. cr.

### Comparative Vertebrate Anatomy

Fundamental course designed to enhance understanding and appreciation of the structure and adaptions of vertebrates. Emphasis on evolution and the relationship between structure and function. Two lectures, two 3-hr. labs per week. Prerequisite: Bio 122.

Bio 332 (F, Even) 4 hrs. cr.

### Introduction to Entomology

Collecting methods, taxonomy, life history, morphology and evolution of insects. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

Bio 342 (Demand) 2 hrs. cr.

### Microtechnique

Principles of preserving, fixing, staining and mounting biological materials. Two 2-hr. labs per week. Prerequisites: Bio 112 and 122.

Bio 352 (Demand) 2 hrs. cr.

### Biomes

Indepth study of a selected ecosystem. The interactions between plants and animals with their abiotic environment is studied in the classroom and during an extended field trip usually lasting one week or more. The habitat chosen for study varies from year to year and some trips require physical conditioning or specialized training. Living conditions range from primitive to reasonably comfortable dormitories. Students are required to bear the cost of the trip. Prerequisites: Bio 112, 122 and permission.

Bio 361 (F, Even) 4 hrs. cr.

### Parasitology

Systematic investigation of the numerous parasites found in vertebrates. Emphasis on life cycles of parasites which infect humans and domestic animals. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 122.

Bio 362 (F, Odd) 4 hrs. cr.

### Virology

Structure, classification and life cycles of bacterial, animal and plant viruses, their significance in disease (including cancer) and the use of viruses in modern biological research. The laboratory will stress the cultivation of viruses in bacterial and other cells. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 231 and 305.

# 60 / Chemistry

Bio 370 (Demand) <b>Environmental Health</b> Contemporary environmental health problems and public protection measures including public disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 231 or permission. (Double listed in Environmental Health Technology.)	4 hrs. cr.	Bio 442 (S, Even) <b>Pathogenic Bacteriology</b> A basic study of the structure, identification and pathology of the infectious bacteria. Three hours of lecture and two 2-hr. labs per week. Prerequisite: Bio 231.	5 hrs. cr.
Bio 371 (Demand) <b>Plant Physiology</b> Introduction to plant physiology emphasizing a review of the cell, plant biochemistry, regulation of plant development and factors producing physiological stress in plants. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112 and 210.	4 hrs. cr.	Bio 450 (F, S) <b>Internship in Biology</b> In conference with a departmental board a half semester in advance, the student shall elect to work and observe in any area of applied biology in which on-the-job experience would be beneficial to the student's training. Prerequisites: At least a second semester junior standing in biology with a minimum of 20 biology hrs. and 20 senior hrs. or permission.	1-8 hrs. cr.
Bio 380 (S, Odd) <b>Epidemiology</b> Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisites: Bio 290, EHT 312, (Bio 312) and EHT 370, (Bio 370) or permission. (Double listed in Environmental Health Technology.)	2 hrs. cr.	Bio 456 (S, Even) <b>Immunology</b> Cellular and molecular basis of the immune response in vertebrates including structure, induction and regulation of the immune response. Autoimmune disorders, vaccines, transplantation and diagnostic immunology will also be presented. The laboratory will stress the induction and manipulation of the immune response. Three lectures and one 3-hr. lab per week. Prerequisites: 231 and 305.	4 hrs. cr.
Bio 402 (S) <b>General Ecology</b> (Writing Intensive) Study of plant and animal communities and their interaction within the environment. Emphasis on flora and fauna of Southwest Missouri and soils, climate and other major environmental factors responsible for the distribution and association of plants and animals. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 112 and 122 or permission.	4 hrs. cr.	Bio 462 (S, Odd) <b>Embryology</b> Detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 331.	5 hrs. cr.
Bio 422 (Demand) <b>Invertebrate Zoology</b> Classification, morphology, physiology, development and evolution of invertebrate animals. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 122.	5 hrs. cr.	Bio 481 (S, Odd) <b>Aquatic Ecology</b> Analysis of components of freshwater systems, both impoundment and stream environments. Three hrs. lecture, one 2-hr. lab per week. Prerequisite: Bio 122.	4 hrs. cr.
Bio 431 (Demand) <b>Animal Physiology</b> Comparative approach to the physiology of animals with emphasis on laboratory studies using local species. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include Bio 306 or 431, but not both. Prerequisite: Bio 331.	5 hrs. cr.	Bio 490 (F, S) <b>Seminar</b> Faculty supervised discussion group concerned with reviews and presentation of reports covering current topics in biology. Students will present reviews in their various areas of interest. One meeting per week. Prerequisites: Primarily for biology majors of junior standing or interested students with at least 15 hrs. of biological science. Bio 490 may be repeated for additional credit.	1 hr. cr.
Bio 433 (S, Even) <b>Histology</b> Detailed study of microscopic structure of animal tissues and organs with special emphasis on mammalian tissue. Three lectures, one 3-hr. lab per week. Prerequisite: Bio 122.	4 hrs. cr.	Bio 498 (F, S) <b>Seminar in Biology</b> For upper division majors only. Meets regularly a minimum number of hrs. Designed to give specialized instruction in some discipline of biology not covered in other courses. Prerequisites: Junior standing, 20 hrs. in biology and a minimum GPA of 2.5 in biology or permission.	1-5 hrs. cr.
Bio 440 (Demand) <b>Plant Pathology</b> Historical significance of plant pathology, the physiological response of plants to abiotic factors, the anatomical and physiological aspects of plant susceptibility to disease and examples of management systems. Includes major diseases caused by bacteria, fungi and viruses. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 112.	4 hrs. cr.	Bio 499 (F, S) <b>Problems in Biology</b> Individual work under the supervision of a staff member, with the credit and hrs. to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, department head and school dean. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of biology.	1-3 hrs. cr.



Reynolds Hall 210, 625-9376

**Faculty** Baiamonte - Head, Albright, Kash, Mosher, Whittle

Chemistry graduates will find an impressive array of options and exciting opportunities in fields such as basic research, environmental protection, instrumentation, new product and process development, technical marketing, market research, forensic chemistry, teaching at all levels and information science. Moreover, an education in chemistry is valuable in health sciences such as medicine, pharmacology, clinical chemistry and industrial hygiene. The first step into a future in chemistry is a formal education. Since chemistry is such a broad field and holds diverse career opportunities, students should plan their education with a goal in mind.

## Bachelor of Arts with a Major in Chemistry

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51* 43</b>
<b>Foreign Language (four courses in one language)</b>	<b>12</b>
<b>Chemistry Requirements</b>	<b>28</b>
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 300 Intro to Modern Organic Chemistry (5 hrs.) and Upper Division Chemistry Electives (8 hrs.)excluding Chem 301 and Chem 302**	12
OR	
Chem 301 Organic Chemistry I (5 hrs.), Chem 302 Organic Chemistry II (5 hrs.), Upper Division Chem Electives (3 hrs.) excluding Chem 300**	13
<b>Supporting Requirements</b>	<b>16</b>
Phys 151 Elementary College Physics I**	5
Phys 152 Elementary College Physics II**	3
Math 150 Calculus with Analytic Geom I**	5
Comp 110 Programming I	
OR	
Higher level computer course	3
<b>Electives</b>	<b>29</b>
	<b>128***</b>

\*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

Note: A bachelor of arts degree in chemistry is for students who need some knowledge of chemistry as a basis for work in other fields but who do not expect to become professional chemists.

## Bachelor of Science with a Major in Chemistry

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>
<b>Chemistry Requirements</b>	<b>33</b>
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 401 Physical Chemistry I**	4
Chem 402 Physical Chemistry II**	4
<b>Supporting Requirements</b>	<b>23</b>
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Comp 110 Programming I	
OR	
Higher level computer course	3
<b>Electives***</b>	<b>29</b>
	<b>128****</b>

\*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Suggested Electives (Chem 421, Chem 422, Chem 472, Math 260, Math 322, Phys 372, Phys 341)

\*\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science in Education with a Major in Chemistry

Grades 9-12 Certification  
Unified Science with a Chemistry Endorsement

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>
<b>Chemistry Requirements</b>	<b>36</b>
Chem 201 General Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 351 Biochemistry**	4
Chem 401 Physical Chemistry I**	4
Chem 496 Problems in Chemistry	2

## Supporting Requirements

		<b>60</b>
Phil 420 Philosophy of Science	3	
Bio 110 General Biology	4	
Bio 112 Botanical Survey**	4	
Bio 122 Zoological Survey**	4	
Chem 101 General Chemistry I**	5	
Chem 102 General Chemistry II**	5	
Phys 250 General Physics I**	5	
Phys 260 General Physics II**	5	
Geol 110 Intro to Geology	5	
Geol 180 Intro to Meteorology	3	
Math 150 Calculus/Analytic Geometry I**	5	
Math 250 Calculus/Analytic Geometry II**	5	
Comp 110 Programming I (in place of Educ 401)	3	
Select one:		
Bio 312 Environmental Geology	4	
Bio 402 General Ecology	4	
Bio 481 Aquatic Ecology	4	
Geol 300 Environmental Geology	4	
<b>Education Certification Requirements (p. 124-136)</b>	<b>39</b>	
		<b>160</b>

\*Required chemistry, physics, mathematics, psychology and biology courses satisfy major requirements and 15 hours of the Core Curriculum.

\*\*See Prerequisites

## Minor in Chemistry

	Semester Hours
Chem 101 General Chemistry I*	5
Chem 102 General Chemistry II*	5
Chem 201 Analytical Chemistry I*	5
Chem 300 or 301 (Organic Chemistry)*	5
	<b>20</b>

\*See Prerequisites

## 2nd Semester

Chem 102 Gen Chem II (Chem 101)	5
CORE [Eng 102 Comp II]	3
CORE [Hist 110 U.S. History]	3
Electives (Sec area of concentration)	3
Comp 110 Programming I	3
	<b>17</b>

## Sophomore Year

1st Semester	
Chem 301 Org Chem I* (Chem 102)	
OR	
Chem 201 Analy Chem I (Chem 102)	5
Phys 151 Elem Col Phys I (Math 140)	5
CORE [HPER 101 Physical Activity]	1
Electives (Sec area of concentration)	5
	<b>16</b>

## 2nd Semester

Chem 302 Org Chem II* (Chem 301)	
OR	
Chem 300 Intro to Modern Organic Chemistry (Chem 102)	5
Phys 152 Elem Col Phys II (Phys 151)	5
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
Electives (Sec area of concentration)	5
	<b>18</b>

## Junior Year

1st Semester	
Chem 201 Analy Chem I (Chem 102)	
OR	
Chem [Upper Division Elective]	4-5
Foreign Language	3
CORE [Comm 100 Oral Comm]	3
CORE [Humanities and Fine Arts]	3
CORE [Econ 180 Amer Econ Sys]	3
	<b>16-17</b>

## 2nd Semester

Chem [Upper Division Elective]	4
Foreign Language	3
CORE [Psy 100 or Soc 110]	3
CORE [Bio 101 General Biology]	4
CORE [Humanities and Fine Arts]	3
	<b>17</b>

## Senior Year

1st Semester	
CORE [Humanities and Fine Arts]	3
Foreign Language	3
CORE [International Cultural Stu]	3
Electives	6
	<b>15</b>

## 2nd Semester

Foreign Language	3
CORE [Hist 120 or 320 U.S. Hist]	3
Electives	6-7
	<b>12-13</b>

Student may elect either Chem 300 plus 8 hours of upper division chemistry (excluding Chem 301 and Chem 302) or Chem 301 and Chem 302 plus 3 hours of upper division chemistry electives (excluding Chem 300).

(Prerequisites)

(Department Recommendations)

For additional information contact:

Dr. Vernon Baiamonte  
Office: Reynolds Hall 213  
Phone: 625-9541

## Suggested Order of Study

### Bachelor of Arts

Major Code 1905

### Chemistry Major

#### Freshman Year

1st Semester

Course	Hours
Chem 101 Gen Chem I (Algebra & Trig)	5
Math 150 Calculus I	5
CORE [Eng 101 Comp I]	3
CORE [HPER 103 Lifetm Wellness]	2
Psy 120 College Orientation	1
	<b>16</b>

# 62 / Chemistry

## Bachelor of Science

Major Code 1905

### Chemistry Major

#### Freshman Year

		Hours
1st Semester		
Course		
Chem 101	Gen Chem I (Algebra & Trig)	5
Math 150	Calculus I	5
CORE	[Eng 101 Comp I]	3
Comp 110	Programming I	3
Psy 120	College Orientation	1
		<b>17</b>

#### 2nd Semester

		Hours
Chem 102	Gen Chem II (Chem 101)	5
Math 250	Calculus II (Math 150)	5
CORE	[Eng 102 Comp II]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Psy 100 or Soc 110]	3
		<b>17</b>

#### Sophomore Year

		Hours
1st Semester		
Chem 301	Org Chemistry I (Chem 102)	5
Phys 250	General Physics (Math 150)	5
Elective	[Math 260 Calc III] (Math 250)	5
CORE	[IPSc 120 Gov't: U.S./Sta/Loc]	3
		<b>18</b>

#### 2nd Semester

		Hours
Chem 302	Org Chem (Chem 301)	5
Phys 260	Gen Physics II (Phys 250)	5
Elective	[Math 322 Differential Equations] (Math 260)	3
CORE	[Econ 180 Amer Econ Sys]	3
		<b>16</b>

#### Junior Year

		Hours
1st Semester		
Chem 401	Phys Chem I (Math 250, Phys 260)	
OR		
Elective	[Chem 422 Adv Inorg Chem] 4 (Chem 102, Math 250)	
Chem 201	Analy Chem I (Chem 102)	5
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Hist 110 U.S. History]	3
		<b>17</b>

#### 2nd Semester

		Hours
Chem 402	Physical Chem II (Chem 401)	
OR		
Elective	[Chem 472 Organic Qualitative Analysis] (Chem 302)	4
Elective	[Chem 421 Analytical Chemistry II] (Chem 210)	5
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
		<b>16</b>

#### Senior Year

		Hours
1st Semester		
Chem 401	Phys Chem I (Math 250, Phys 260)	
OR		
Elective	[Chem 422 Adv Inorganic Chem] 4 (Chem 102, Math 250)	4
Elective	[Chem 497 Res in Chem]	1
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 or 320 U.S. Hist]	3
CORE	[International Cultural Stu]	3
		<b>14</b>

2nd Semester		
Chem 402	Physical Chemistry II (Chem 401)	
OR		
Elective	[Chem 472 Org Qualitative Analysis] (Chem 302)	4
Elective	[Chem 497 Res in Chem]	2
CORE	[Phys 372 Electronic Circuits] (Phys 260)	4
CORE	[Humanities and Fine Arts]	3
		<b>13</b>

(Prerequisites)

[Department Recommendations]

Chem 297 (F, S)

1-3 hrs. cr.

### Introduction to Research in Chemistry

(Writing Intensive)

Introduction to research techniques; laboratory work and literature search under the supervision of an instructor on a chemical research project. Involves laboratory experimentation as well as a written report on a project from any area of chemistry. Open to students having 1) a minimum of 15 hours of chemistry, 2) freshman or sophomore standing, 3) the ability to undertake independent work and 4) permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 298 (F, S)

1-3 hrs. cr.

### Selected Topics in Chemistry

Special topics in chemistry not normally included in other courses. Prerequisite: Chem 201 or permission of instructor.

Chem 300 (S)

5 hrs. cr.

### Introduction to Modern Organic Chemistry

(Writing Intensive)

Principles of organic chemistry—nomenclature, structure, properties, stereochemistry, reactions—will be studied by the functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as background for other courses in technical or professional training programs. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

Chem 301 (F)

5 hrs. cr.

### Organic Chemistry I

Deals with both Aliphatic and aromatic compounds, their nomenclature, properties, reactions, stereochemistry. The functional group approach is used: hydrocarbons (saturated, unsaturated, aromatic) and their derivatives are studied. Brief introduction to organic spectroscopy included. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

Chem 302 (S)

5 hrs. cr.

### Organic Chemistry II

(Writing Intensive) Continuation of Chem 301. Organic-spectroscopy discussed in detail. The functional group approach is continued: Aryl halides, phenols, aldehydes and ketones, carboxylic acids, amines and polyfunctional compounds are covered. A mechanistic treatment of substitution, elimination, addition and free radical reactions is employed. Organic spectroscopy emphasized in both lecture and lab. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 301.

Chem 320 (S)

2 hrs. cr.

### Applications of Computers in Chemistry

Applications of microprocessors and modern microcomputers in chemistry: management of chemical information; chemical data collection, reduction and quantitation; use of remote information systems (via modem); analytical instrument interfacing; publication. Prerequisite: Chem 301 and Comp 110 or higher lever computer science course.

## Course Descriptions

### Laboratory in Chemistry

A lower division laboratory course to be used by students who are transferring chemistry courses without a laboratory to MSSC. This will make the transferred course equivalent to the MSSC course. Class may be repeated for credit as needed.

### Analytical Chemistry I

Standard first course in quantitative chemical analysis. The lecture and lab include the theory and practice of methods of analysis. While the primary emphasis in the first semester is on the interpretation of the experimental results, other aspects of the analytical process are introduced. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 102.

Chem 351 (F) 4 hrs. cr.  
**Biochemistry** (*Writing Intensive*)

Fundamental concepts of the chemistry of lipids, carbohydrates and proteins with emphasis on the physiological aspects of these compounds. The interrelationship of these compounds in living systems will be presented through bioenergetics and reaction pathways. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 300 or 302.

Chem 390 (Demand) 1-2 hrs. cr.  
**Laboratory in Chemistry**

A upper division laboratory course to be used by students who are transferring chemistry courses without a laboratory to MSSC. This will make the transferred course equivalent to the MSSC course. Class may be repeated for credit as needed.

Chem 401 (F, Odd) 4 hrs. cr.  
**Physical Chemistry I**

Development of laws of thermodynamics to explain the relationships between properties of systems at equilibrium. Ideas of thermodynamics are first applied to equilibria between different phases and then to chemical reactions. Three lectures, one 3-hr. lab per week. Prerequisites: Math 250 and Phys 260.

Chem 402 (S, Even) 4 hrs. cr.  
**Physical Chemistry II**

Continuation of Chem 401. A microscopic approach to the understanding of chemical and physical properties of chemical systems and a study of the rates at which chemical and physical processes occur. Studies of: quantum theory, molecular electronic structure, molecular spectroscopy, statistical mechanics, kinetic theory of gases and chemical kinetics. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 401.

Chem 421 (S, Odd) 5 hrs. cr.  
**Analytical Chemistry II**

Continuation of Chemistry 201. A study of the overall analytical process. Lecture and lab deal mainly with electrochemical and spectrophotometric methods of analysis and their application in chemical analysis, but also include other physiochemical and separatory techniques used in modern analytical processes. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 201.

Chem 422 (S, Even) 4 hrs. cr.

**Advanced Inorganic Chemistry**

Contemporary state of the several bond models in chemistry, a review of the energetics of reactions and coordination theory, followed by the chemistry of the families of the elements in the periodic table. Three lectures, one 3-hr. lab per week. Prerequisites: Chem 102 and Math 250.

Chem 472 (S, Odd) 4 hrs. cr.

**Organic Qualitative Analysis**

Systematic identification of organic compounds and mixtures; organic spectroscopy is emphasized. Two lectures, two 3-hr. labs per week. Prerequisite: Chem 302.

Chem 496 (F, S) 2 hrs. cr.  
**Problems in Chemistry** (*Writing Intensive*)

A practical research class especially designed for student seeking a bachelor of science in education with a major in chemistry. The class involves laboratory work and a literature search under the supervision of an instructor on a chemical research project. Involves lab experimentation as well as written report on a project from any area of chemistry. Open to students needing a problems course in chemistry to satisfy Missouri Certification Standards for Secondary Teachers in Chemistry. Students must have a minimum of 20 hours of chemistry and permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 497 (F, S) 1-3 hrs. cr.

**Research in Chemistry** (*Writing Intensive*)

Independent research techniques; lab work and literature search under the supervision of an instructor on a chemical research project. Involves lab experimentation as well as a written report on a project from any area of chemistry. Open to students having 1) a minimum of 20 hours of chemistry, 2) junior or senior standing, 3) the ability to undertake independent work and 4) permission of the instructor. Enrollment must be approved by the adviser and the department head.

Chem 498 (F, S) 1-3 hrs. cr.

**Seminar**

For upper division chemistry majors. Content varies, depending on the student's needs, from library research to special topics in chemistry. Prerequisite: Senior standing or permission of department head.

Chem 499 (F, S) 1-3 hrs. cr.

**Independent Study**

Independent investigation techniques; includes a paper on a selected topic with both a critical survey of the chemical literature and results from advanced lab experimentation. Open to students having (1) minimum of 25 hrs. of chemistry, (2) ability to undertake independent work and (3) permission of instructor. Enrollment must be approved by adviser, department head and school dean.

skills as well as gaining technical knowledge related to mass media production and publication. A major in communications is one of the most diversified areas of study available to students who wish to excel in business, industry, government or education at the local, state, national and international levels. Missouri Southern graduates in communications have found successful careers in the media, in government, in education and in a variety of public relations positions for hospitals, state and national associations, in retailing and in industry.

Students pursuing a bachelor of arts degree in communications have two options. Option I, speech communication, examines the role of human communication in social, organizational, political and cultural interactions. This option places a balanced focus on the theory and practice of communicating. Special emphasis includes identifying the antecedents of communication, its form and content and its consequences. Option II, mass communications, offers students the necessary abilities in planning, preparing and producing programs in electronic media and/or designing and writing for journalism. This option emphasizes the technical skills, creativity and demand for understanding target audiences in mass media. Students gain hands-on experience in television, radio and print laboratories, each outfitted with state-of-the-art equipment. Also available is a bachelor of science degree in education with a teaching emphasis in speech communication and theatre.

The communications department oversees the student operations of Missouri Southern Television with its cable service MSTV and its community station K57DR, in addition to the available media training through PBS-affiliated KOZJ in Joplin. The department also manages KXMS, a 24-hour-a-day classical radio station operated by students and community volunteers. Perhaps the most widely recognized contribution of the communications department is *The Chart*, a student operated college newspaper published once a week. Additionally, the department publishes *Crossroads: the Magazine*.

Students also have opportunities to participate in other communications sponsored activities. The debate and forensics program offers students the chance to develop their critical thinking skills and to participate in events such as informative, persuasive and extemporaneous speaking competitions. Debate and forensics students may join the forensic honor society of Pi Kappa Delta. Communications majors interested in mass media may join Southern's chapter of the national broadcast fraternity of Alpha Epsilon Rho and participate in its state, regional

## Communications

Webster Hall 353, 625-9580

**Faculty** Massa - Head, Bodon, Bryant, Carter, Clark, Crawford, Marlow, Merriam, Moorman, Peterson, Schweizer, Stebbins, Weber, Yocum

A major in communications offers an array of career opportunities in such fields as public communication, television, radio and journalism. In the education process, emphasis is placed on speaking and writing

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and national conventions. The department also sponsors the Modern Communications Club which plans on-campus events and off-campus field trips for students interested in communications activities. The club expands the scope of communications to include foreign language speakers.

Internships are encouraged for communications majors. These internships allow students to gain work experience in occupational positions they may wish to pursue. Students work under the joint supervision of a faculty member and a representative of the organization providing the intern experience. The communications curriculum acknowledges the diversity and interconnectedness among peoples, promotes an understanding of human values and prepares its students for leadership in a competitive world.

Core Curriculum requirements for all students of the College include Comm 100, Oral Communication.

## Bachelor of Arts with a Major in Communications

### Option I: Speech Communication

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Computer Literacy Requirement:</b>	
<b>Comp 105 Intro to Microc Use</b>	<b>3</b>
<b>Foreign Language (four courses in one language)</b>	<b>12**</b>
<b>Communications Requirements</b>	<b>47</b>
Comm 101 Introduction to Human Communication	3
Comm 131 Voice and Diction	3
Comm 215 Interpersonal Communication*	3
Comm 300 Organizational Communication*	3
Comm 411 Political and Social Communication*	3
Comm 420 Mass Communications Theory*	3
Comm 492 Communication Issues*	3
Communication Electives	26
<b>Electives</b>	<b>15</b>
	<b>128***</b>

\*See Prerequisites

\*\*A proficiency level of "Intermediate Plus" is required.

\*\*\*Must include at least 40 upper-division (300-400 level) hours.

## Bachelor of Arts with a Major in Communications

### Option II: Mass Communications

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Computer Literacy Requirement:</b>	
<b>Comp 105 Intro to Microc Use</b>	<b>3</b>
<b>Foreign Language (four courses in one language)</b>	<b>12**</b>
<b>Communications Requirements</b>	<b>47</b>
Comm 101 Intro to Human Communication	3
Comm 111 Newswriting	3
Comm 215 Interpersonal Communication	3
Comm 220 Practicum in Communications*	2
(Student must select two different activities.)	
Comm 310 Communication Law	3
Comm 325 Broadcast News Reporting*	3
Comm 330 Advanced Communications Practicum*	1
Comm 420 Mass Communications Theory*	3
Comm 492 Communication Issues*	3
Communication Electives	23
<b>Electives</b>	<b>15</b>
	<b>128***</b>

\*See Prerequisites

\*\*A proficiency level of "Intermediate Plus" is required.

\*\*\*Must include at least 40 upper division (300 - 400 level) hours. Courses numbered 300 and above in history, political science, sociology, business and psychology are recommended.

## Bachelor of Science in Education with a Major in Speech Communication and Theatre

### Grades 7-12 Certification Plan B Single Teaching Field

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>
<b>Computer Literacy Requirement:</b>	
<b>Educ 401 Use of Computer Software in the Classroom</b>	<b>2</b>
<b>Communications Requirements</b>	<b>20</b>
Comm 101 Intro to Human Communication	3
Comm 215 Interpersonal Communication**	3
Comm 304 Small Group Communication**	3
Comm 315 Argumentation and Debate**	3
Electives in Communications***	8
<b>Theatre Requirements</b>	<b>20</b>

Th 121, 122, 221, or 222—	
Theatre Laboratory	2
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 234 Intro Theatrical Design	3
Th 241 Acting I	3
Th 331 History of Theatre (WI)	
OR	
Th 332 History of Theatre	3
Th 351 Directing**	3
<b>Electives</b>	<b>3</b>
<b>Education Certification Requirements (p. 124-136)</b>	<b>40-41****</b>
	<b>38-39</b>
	<b>131-132</b>

\*Required course in psychology counts 3 hours toward Core Curriculum requirements, Area 3C.

\*\*See Prerequisites

\*\*\*Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre.

\*\*\*\*Two credit hours are satisfied by Educ 401.

## Minor in Mass Communications

	Semester Hours
Comm 111 Newswriting	3
Comm 310 Communication Law	3
Comm 325 Broadcast News Reporting	3
Communications electives*	9
	<b>18</b>

\*Electives must be above the 100 level and must be chosen in consultation with an adviser from the communications department.

A student may emphasize either the print or broadcast media.

## Minor in Speech Communication

	Semester Hours
Comm 100 Oral Communication*	3
Comm 215 Interpersonal Communication	3
Comm 304 Small Group Communication	3
Comm 306 Persuasion	3
Comm 307 Professional Interviewing	3
Comm 401 Nonverbal Communication	3
	<b>18</b>

This minor is designed especially for those individuals who will be entering business, industry, education or any field calling for "superior communication skills."

\*Meets Core Curriculum requirement.

## **Suggested Order of Study**

**Bachelor of Arts**  
Major Code 0600M  
**Communications Major**  
**Mass Communications Option**  
**Broadcast Emphasis**

**Freshman Year**

Course	Hours
Foreign Language	3
CORE [Eng 101 Comp I]	3
CORE [Comm 100 Oral Comm]	3
Comm 101 Intro to Human Comm	3
Comm 111 Newswriting	3
Psy 120 College Orientation	1
	<b>16</b>

2nd Semester

Foreign Language	3
CORE [Eng 102 Comp II]	3
CORE [HPER 103 Lifetm Wellness]	2
CORE [Econ 180 Amer Econ Sys]	3
Comm 130 Intro to Broadcasting	3
Comm 131 Voice and Diction	3
	<b>17</b>

**Sophomore Year**

Course	Hours
Foreign Language	3
CORE [HPER 101 Physical Activity]	1
CORE [Humanities and Fine Arts]	3
Comm 215 Interpersonal Comm	3
Comm 200 Radio Production	
OR	
Comm 201 TV Production	3
Comm 220 Practicum In Comm	1
Electives	3
	<b>17</b>

2nd Semester

Foreign Language	3
CORE [Humanities and Fine Arts]	3
Comm 200 Radio Production	
OR	
Comm 201 TV Production	3
Comm 220 Practicum in Comm	1
CORE [Math 110 Intro to Col Math]	3
Electives	3-5
	<b>16-18</b>

**Junior Year**

Course	Hours
Comp 105 Intro to Micro Use	3
CORE [Humanities and Fine Arts]	3
CORE [Biology]	4
Comm 320 Advanced TV Production	3
Comm 325 Broadcast News Reporting	3
	<b>16</b>

2nd Semester

CORE [Phys 100 Fund of Phys Sci]	5
CORE [Psy 100 or Soc 110]	3
Comm 310 Comm Law	3
Comm 402 Broadcast Programming	3
Comm 301 Broadcast & Cable Mgmt	3
	<b>17</b>

**Senior Year**

1st Semester	
CORE [Hist 110 U.S. History]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
Comm 330 Adv Comm Practicum	1
CORE [Comm 305 Intercul Comm]	3
Comm Elective (upper division)	3
Elective (upper division)	3
	<b>16</b>

2nd Semester

2nd Semester	
CORE [Hist 320 U.S. History]	3
Comm 420 Mass Comm Theory	3
Comm 492 Comm Issues	3
Electives (upper division)	5
	<b>14</b>

Electives should be chosen in consultation with the adviser to meet desired career goals. Courses in history, business, political science, sociology, psychology, art and theatre all may be appropriate.

[Department Recommendations]

For additional information contact:

Mr. Richard W. Massa  
Office: Webster Hall 362  
Phone: 625-9372

**Bachelor of Arts**

Major Code 0600M

**Communications Major**

**Mass Communications Option**

**Newspaper Emphasis**

**Freshman Year**

Course	Hours
Foreign Language	3
CORE [Eng 101 Comp I]	3
CORE [Comm 100 Oral Comm]	3
Comm 101 Intro to Human Comm	3
Comm 111 Newswriting	3
Psy 120 College Orientation	1
	<b>16</b>

2nd Semester

Foreign Language	3
CORE [Eng 102 Comp II]	3
CORE [Math 110 Intro to Col Math]	3
CORE [HPER 101 Physical Activity]	1
Comm 220 Practicum in Comm	1
Elective	3
	<b>14</b>

**Sophomore Year**

Course	Hours
CORE [HPER 103 Lifetm Wellness]	2
CORE [Econ 180 Amer Econ Sys]	3
Foreign Language	3
Comm 215 Interpersonal Comm	3
Comm 220 Practicum in Comm	1
Comm Electives [Comm 231 Feature Writing]	3-4
	<b>15-16</b>

**2nd Semester**

Foreign Language	3
CORE [Humanities and Fine Arts]	3
CORE [Psy 100 or Soc 110]	3
Comm Elective	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
Elective	2-3
	<b>17-18</b>

**Junior Year**

1st Semester	
Comp 105 Intro to Micro Use	3
CORE [Humanities and Fine Arts]	3
CORE [Biology]	4
Comm 325 Broadcast News Reporting	3
Elective	2
	<b>16</b>

2nd Semester

CORE [Humanities and Fine Arts]	3
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Hist 110 U.S. History]	3
Comm 310 Comm Law	3
Comm Elective (upper division)	3
	<b>17</b>

**Senior Year**

1st Semester	
CORE [Hist 320 U.S. History]	3
Comm Electives [upper division]	8
Electives [upper division]	4
	<b>15</b>

2nd Semester

Comm 420 Mass Comm Theory	3
CORE [Comm 305 Intercul Comm]	3
Comm 492 Comm Issues	3
Electives (upper division)	4
	<b>13</b>

Electives in communications should be chosen in consultation with the adviser to meet desired career goals. Other electives should be chosen in an area of minor concentration or in a supportive role to career goals. Courses in history, business, political science, sociology and psychology are strongly recommended.

[Department Recommendations]

For additional information contact:

Mr. Richard W. Massa  
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Phone: 625-9372

**Bachelor of Arts**

Major Code 0600S

**Communications Major**

**Speech Comm Option**

**Freshman Year**

1st Semester	
Course	Hours
Foreign Language	3
CORE [Eng 101 Comp I]	3
CORE [Comm 100 Oral Comm]	3
CORE [Math 110 Intro to Col Math]	3
Psy 120 College Orientation	1
Comm 101 Intro to Human Comm	3
	<b>16</b>

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2nd Semester		
Foreign Language	3	
CORE [Eng 102 Comp II]	3	
CORE [HPER 103 Lifetm Wellness]	2	
CORE [Econ 180 Amer Econ Sys]	3	
Comm 131 Voice and Diction	3	
Comm Elective	3	
	<b>17</b>	

<b>Sophomore Year</b>		
1st Semester		
Foreign Language	3	
CORE [HPER 101 Physical Activity]	1	
CORE [Humanities and Fine Arts]	3	
Comm 215 Interpersonal Comm	3	
Comm Elective	3	
Elective	3	
	<b>16</b>	

2nd Semester		
Foreign Language	3	
CORE [Humanities and Fine Arts]	3	
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3	
Comm Elective	3	
Electives	6	
	<b>18</b>	

<b>Junior Year</b>		
1st Semester		
Comp 105 Intro to Micro Use	3	
CORE [Humanities and Fine Arts]	3	
CORE [Biology]	4	
Comm 300 Organizational Comm	3	
Elective	3	
	<b>16</b>	
2nd Semester		
CORE [Phys 100 Fund of Phys Sci]	5	
CORE [Psy 100 or Soc 110]	3	
CORE [Hist 110 U.S. History]	3	
Comm 411 Political and Social Comm	3	
Comm Elective (upper division)	3	
	<b>17</b>	

<b>Senior Year</b>		
1st Semester		
CORE [Hist 320 U.S. History]	3	
Comm Electives (upper division)	9	
Elective (upper division)	3	
	<b>15</b>	

2nd Semester		
Comm 420 Mass Comm Theory	3	
CORE [Comm 305 Intercul Comm]	3	
Comm Electives (upper division)	6	
Comm 492 Comm Issues	3	
	<b>15</b>	

Electives should be selected in consultation with the adviser to meet desired career goals.

[Department Recommendations]

For additional information contact:

Mr. Richard W. Massa  
Office: Webster Hall 362  
Phone: 625-9372

## Bachelor of Science in Education

Major Code 0844  
**Speech-Theatre Major**  
**Grades 7-12 Certification**  
**(Plan B) Single Teaching Field**

<b>Freshman Year</b>		
1st Semester		
Course	Hours	
Comm 101 Intro to Human Comm	3	
CORE [Comm 100 Oral Comm]	3	
CORE [Eng 101 Comp I]	3	
CORE [Math 110 Intro to Col Math]	3	
CORE [Biology]	4	
Psy 120 College Orientation	1	
Educ 100 Orientation to Education	1	
	<b>18</b>	
2nd Semester		
Psy 100 General Psychology	3	
Comm Electives	6	
Th 142 Theatre Technology	3	
CORE [Eng 102 Comp II]	3	
CORE [Humanities and Fine Arts]	3	
	<b>18</b>	

<b>Sophomore Year</b>		
1st Semester		
Take C-Base test.		
Comm Elective	3	
Comm 215 Interpersonal Comm	3	
Psy 301 Adolescent Psychology	3	
Th 241 Acting I	3	
CORE [Humanities and Fine Arts]	3	
CORE [HPER 103 Lifetm Wellness]	2	
Educ 200 Orientation to Education II	1	
	<b>18</b>	
2nd Semester		
Apply for admission to teacher education.		
Psy 310 Educational Psychology	2	
Educ 302 The Exceptional Child	2	
Th 212 Oral Interpretation	3	
Th 234 Intro to Theatrical Design	3	
CORE [Humanities and Fine Arts]	3	
CORE [Hist 110 U.S. History]	3	
CORE [HPER 101 Physical Activity]	1	
	<b>17</b>	

<b>Junior Year</b>		
1st Semester		
Pass media competencies.		
Educ 329 Ped Theo, Meth & Prac	4	
Educ 321 Microteaching Secondary	2	
Educ 390 Intro to Instructional Media	2	
Comm 304 Small Group Comm	3	
Comm 315 Argumentation and Debate	3	
Th 331 History of the Theatre		
Educ 423 Classroom Management	2	
	<b>19</b>	
2nd Semester		

CORE [Comm 305 Intercul Comm]	3	
Comm Elective	3	
CORE [Phys 100 Fund of Phys Sci]	5	
CORE [PSc 120 Gov't: U.S./Sta/Loc]	5	
CORE [Econ 180 Amer Econ Sys]	3	
Educ 422 Reading in Sec Schools	2	
	<b>19</b>	

## Senior Year

1st Semester  
Apply for student teaching. All course work must be completed except for Professional Semester courses.

Th 351 Directing I	3
CORE [Hist 320 U.S. History]	3
Educ 412 or Educ 420* or Educ 423 or Psy 412	2-3
Electives	9

**17-18**

2nd Semester	
Educ 402 Foundations of Education	2
Educ 432 Critical Issues in Education	2
Educ 344 Teaching Speech & Theatre in Sec. Schools	2
Educ 401 Use of Comp Sftwr in Clsmr	2
Educ 462 Student Teaching	8
	<b>16</b>

[Department Recommendations]

\*Must be taken prior to the student teaching semester.

For additional information contact:

Mr. Richard W. Massa  
Office: Webster Hall 362  
Phone: 625-9372

## Course Descriptions

**Comm 100 (F, S) 3 hrs. cr.**

### Oral Communication

Principles of oral communication, including speaking and listening competencies and skills. Primary emphasis is on presenting various types of speeches and improving listening ability. Research, organization, reasoning, language and evaluation skill development are included. Three contact hrs. per week. (Required of all degree candidates.)

**Comm 101 (F, S) 3 hrs. cr.**

### Introduction to Human Communication

An introductory survey of the field of communication, exploring theoretical and research foundations. Included are discussions of language and verbal interaction and nonverbal communication. Contexts of communication are covered: interpersonal, group and organizational, public, intercultural and mass. Also covered will be career opportunities for the student who chooses a major or minor in communication.

**Comm 111 (F, S) 3 hrs. cr.**

### Newswriting

Development of techniques in reporting and writing for a newspaper. Work on the College newspaper, *The Chart*, is required.

Comm 121 (F, S) <b>Forensics Workshop</b> A practicum in forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit.	(Per Sem.) 1 hr. cr.	Comm 215 (F, S) <b>Interpersonal Communication</b> <i>(Writing Intensive)</i> Person-to-person communication with emphasis on dyadic and group communication. Lecture, reading and discussion with class experiments designed to illustrate interpersonal communication problems. Prerequisite: Comm 100.	3 hrs. cr.	Comm 304 (F) <b>Small Group Communication</b> <i>(Writing Intensive)</i> Small group context of interpersonal communication emphasizing group behavior and human relations. Specific units include group problem solving, decision making and leadership style. Prerequisite: Comm 100.	3 hrs. cr.
Comm 130 (S) <b>Introduction to Broadcasting</b> The role of the electronic media in our society and an introduction to the varied aspects and functions of the broadcasting professions. Laboratory experience in radio and television.	3 hrs. cr.	Comm 220 (F, S) <b>Practicum in Communications</b> Laboratory experience on the staff of the College newspaper, yearbook, or broadcast media. Students will participate fully in the work of the media, working under the supervision of faculty members. A minimum of 5 hrs. per week is required. One hr. of credit each term for a maximum of three terms. Prerequisite: for <i>The Charter Crossroads</i> , Comm 111; for KXMS, Comm 200; for TV, Comm 201.	(Per Sem.) 1 hr. cr.	Comm 305 (F, S) <b>Intercultural Communication</b> <i>(Writing Intensive)</i> Analysis of variables influencing communication among peoples from different cultures. Emphasis on developing interpersonal skills needed in multicultural encounters. Prerequisite: Comm 100. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)	3 hrs. cr.
Comm 131 (F, S) <b>Voice and Diction</b> Techniques for improving the speaking voice. Attention to voice production, phonetics, pronunciation and vocal expressiveness.	3 hrs. cr.	Comm 231 (F) <b>Feature Writing</b> Investigative reports and special articles for newspapers and magazines. Work on the College newspaper is required. Prerequisite: Comm 111 or consent of instructor.	3 hrs. cr.	Comm 306 (S) <b>Persuasion</b> A theoretical examination of the principles of influencing individuals and groups, a history of rhetoric and modern application of these principles to various areas of social interaction. Prerequisite: Comm 100.	3 hrs. cr.
Comm 150 (F, S) <b>Introduction to Desktop Publishing</b> Desktop publishing is a significant technology in the working environment for the journalist or public relations practitioner. Designed for the student with little or no familiarity with computers. A lecture/hands-on laboratory course intended to equip the student with basic skills in desktop publishing. Enrollment is limited to communications majors. Does not meet computer literacy requirements.	3 hrs. cr.	Comm 233 (S) <b>Copiediting</b> Principles of copy reading and editing, design of newspaper. Use of desktop publishing skills. Students work in positions of major responsibilities on the College newspaper, <i>The Chart</i> . Prerequisite: Comm 111 and Comm 150 or equivalent experience.	3 hrs. cr.	Comm 307 (F) <b>Professional Interviewing</b> Designed to prepare students for professional fields which require information-seeking and -gathering, decision-making, interaction skills and self-expression. The student will participate in a variety of simulated and actual interviewing situations as both an interviewer and interviewed. Prerequisite: Comm 100.	3 hrs. cr.
Comm 200 (F, S) <b>Radio Production</b> Development of announcing skills. Exercises in microphone techniques, introduction to control board, basic production techniques and combo operation of radio station, introduction to programming and formats. Projects are taped for analysis and critique. Two hrs. lecture, 2 hrs. lab per week.	3 hrs. cr.	Comm 298 (Demand) <b>Selected Topics in Communications</b> Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.	1-8 hrs. cr.	Comm 308 (S, Odd) <b>Gender Communication</b> The pragmatics of gender-related communication refers to the study of the embedded contexts of male-female symbolic interaction. This introduction to the field of gender communication will look at interpersonal, organizational and cultural contexts. Prerequisite: Comm 100.	3 hrs. cr.
Comm 201 (F, S) <b>Television Production</b> Intensive practice in preparation and production of television programs. Camera techniques, floor setups and direction of crews and talent. Interviewing techniques. Development of varied on-the-air skills. Two hrs. lectures, 2 hrs. lab per week.	3 hrs. cr.	Comm 300 (F) <b>Organizational Communication</b> The interface between communication theory and organizational structure. Emphasis upon communication problems in organizations, strategies for overcoming such problems and the design of effective communication systems in organizational settings. Prerequisites: Comm 101 and 215.	3 hrs. cr.	Comm 310 (S) <b>Communication Law</b> Statutes, administrative regulations and court decisions affecting freedom of information, censorship, libel, privacy, contempt of court, obscenity, legal access, copyright, advertising and broadcasting. Rights, privileges and obligations of the press.	3 hrs. cr.
Comm 203 (S) <b>Business and Professional Speech</b> A performance-oriented course designed to foster ability in and understanding of the role of speech communication in the context of business organizations and the professions. Interviewing, group discussion and individual speaking formats are included.	3 hrs. cr.	Comm 301 (S, Even) <b>Broadcast and Cable Management</b> Broadcast station administration, market analysis, policy determination, station organization, sales, programming, network relationships, community involvement and FCC responsibilities. Prerequisite: Comm 200 and 201 or consent of instructor.	3 hrs. cr.	Comm 311 (S) <b>Introduction to Public Relations</b> Nature and scope of public relations and its relationship to interpersonal and interdisciplinary conduct. Basic elements of public relations including planning, special events, speeches, news releases, annual reports, financial reporting, visual and electronic media techniques.	3 hrs. cr.
Comm 205 (S, Even) <b>Listening</b> A study of the role listening plays in our daily lives. Emphasis on the listening process, types of listening skills, response strategies and what our listening behaviors communicate to others. Intensive practice for those who recognize the importance of genuine listening and wish to acquire proficient listening abilities.	3 hrs. cr.	Comm 302 (Demand) <b>Photocommunications</b> Theory and practice of communication through the medium of photography. Students work on the photography staffs of college publications and deal with the application of photography to the mass media. Prerequisite: Comm 111 and a knowledge of photographic techniques, including developing and printing.	3 hrs. cr.	Comm 312 (Demand) <b>Scholastic Publications</b> Editorial and production practices of school newspapers and yearbooks. The role of the publications adviser; advanced publication work on the College newspaper or yearbook. Prerequisite: 12 hrs. in media courses.	3 hrs. cr.

# 68 / Communications

Comm 315 (F, Even) <b>Argumentation and Debate</b> The theory of the modern forms of evidence, evaluations, arguments, methods of refutation and ethical relationships of these methods in a free society. (Meets certification requirements for secondary education.) Prerequisite: Comm 100.	3 hrs. cr.	Comm 345 (F, S, Summer) <b>Internship in Communications</b> Off-campus work experience in areas related to professional goals of students. For advanced majors in communications. Students must be approved for the program prior to enrolling. Application must be made during the first half of one semester for the following semester. In all internships students work under joint supervision of a faculty member and a representative of the organization providing the intern experience. A student may repeat the course to a maximum of 8 hrs. of credit. Prerequisites: Communications major with a minimum of 85 semester hrs.; approval of department head prior to enrolling. Some internships may have other specific prerequisites. Guidelines are available in the department's offices and must be followed.	1-8 hrs. cr.	Comm 425 <b>Broadcast Scriptwriting</b> (S, Odd) Methods, style and techniques for preparing scripts for various types of radio and television programs and announcements. Using the computer for typing scripts. Emphasis on promotion commercials, public service announcements, partially, scripted and fully-scripted program formats such as public affairs programs, variety shows, game shows, the documentary and drama. Prerequisites: Comm 111 and 200 or 201 or 325.	3 hrs. cr.
Comm 320 (S) <b>Advanced Television Production</b> Focuses on the elements of producing and directing television programs. Students spend most of the laboratory time actually producing programs for telecasting on cable, public television, or the College's own television station. One hr. lecture, 4 hrs. lab each week. Prerequisite: Comm 201.	3 hrs. cr.	Comm 350 (Demand) <b>Sports Writing</b> The fundamental principles of reporting and interpreting sports, improving writing and editing skills for game coverage and feature stories and further developing and refining those skills necessary for success in the field. Prerequisite: Comm 111.	3 hrs. cr.	Comm 450 (S, Even) <b>Community Journalism</b> Examining the nature and role of community journalism in an urbanized society is the thrust of the study. It relies heavily on the expertise of community journalism practitioners as resources of information and research. Experience with small daily and weekly newspapers will be the foundation for developing skills in community journalism. Prerequisite: Comm 111.	3 hrs. cr.
Comm 321 (F, S) (Per Sem.) 1 hr. cr. <b>Forensics Workshop</b> Advanced practicum in the area of forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit. Prerequisite: Junior or senior standing and Comm 121.	3 hrs. cr.	Comm 400 (S, Even) <b>Advanced Organizational Communication</b> The application of communication theory within the organizational structure is the thrust of the course. Particular attention is focused on analysis and diagnostic capabilities. Communication training and development within an organizational setting is emphasized. Prerequisite: Comm 300.	3 hrs. cr.	Comm 490 (S) <b>Professional Communication Skills (Writing Intensive)</b> Writing, speech preparation and the public presentation of ideas. Both written and oral presentations are required and considerable emphasis will be placed on the effective use of language. Prerequisites: Comm 100 and Eng 102.	3 hrs. cr.
Comm 325 (F) <b>Broadcast News Reporting (Writing Intensive)</b> Experience in writing and reporting news for broadcast. Interview assignments, wire rewriting, actualities/voice production and newstape editing. Laboratory experience with campus broadcast media. Prerequisite: Comm 111.	3 hrs. cr.	Comm 401 (S) <b>Nonverbal Communication</b> The thrust of the course will be to study types and effects of various nonverbal communication behaviors and to develop competencies and skills in applying the study to selected perspectives. Original research as well as published research will be emphasized. Prerequisite: Comm 100.	3 hrs. cr.	Comm 492 (S) <b>Communication Issues</b> Required of all communications majors. Synthesizes information obtained from previous coursework. Students are presented with current issues of concern from communications fields and are asked to present possible scenarios for their resolution. Prerequisite: Senior standing, plus 15 hrs. in communications.	3 hrs. cr.
Comm 330 (F, S) 1 hr. cr. <b>Advanced Communications Practicum</b> Intensive laboratory experience on the staff of the College newspaper, yearbook, broadcast media or in the Communications Resource Center. Students will work for a minimum of 5 hrs. per week in positions of major responsibilities. May be repeated for a maximum of 6 hrs. of credit. Prerequisites: Junior or senior standing; media courses to prepare student adequately for work expected; Comm 220 or permission.	3 hrs. cr.	Comm 402 (S, Odd) <b>Broadcast Programming</b> An analysis of the programming principles and techniques used within the broadcast and cable professions. Practices of networks, affiliated stations, independent stations and superstations are compared and contrasted. Prerequisite: Comm 130.	3 hrs. cr.	Comm 493 (S, Even) <b>International Communication</b> Comparative analysis of media systems throughout the world, international broadcasting, freedom of the press, media imperialism and the New World Information Order.	3 hrs. cr.
Comm 331 (F, S) 2 hrs. cr. <b>Advanced Newspaper Practicum</b> Intensive lab experience with opportunities for major leadership position on the staff of the College newspaper. Students will participate fully in the publication of the newspaper working under the supervision of a faculty member. One class session plus a minimum of ten working hours per week are required. Attendance at a weekly newspaper staff meeting also is required. Two hours of credit each term for a maximum of two terms. Prerequisite: Comm 220 and 330.	2 hrs. cr.	Comm 411 (S, Odd) <b>Political and Social Communication</b> Critical analysis of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs; includes lecture, reading and discussion. Prerequisite: Comm 100 and junior or senior standing.	3 hrs. cr.	Comm 498 (Demand) <b>Seminar in Speech Communication</b> For upper-division students. Topics to be announced each time the course is offered.	3 hrs. cr.
Comm 340 (S, Odd) <b>Research in Communications</b> An introduction to research methods in communications. Discussion of these methods as they apply to various communication contexts. This course offers an exploration of the nature of research, types of research methodologies and evaluation of research. Prerequisites: Junior or senior standing and Comm 101.	3 hrs. cr.	Comm 412 (F) <b>Mass Communications Theory</b> Explores the various theories which have been applied to understanding the effects of the mass media. Students will learn the various paradigms which have been applied in attempting to predict media performance, reliability and impact. Prerequisite: Comm 100 plus 3 hrs. of communication courses.	3 hrs. cr.	Comm 498 (Demand) <b>Seminar in Mass Communications</b> For upper-division students. Topics to be announced each time the course is offered.	1-3 hrs. cr.
Comm 499 <b>Independent Study in Speech Communication</b> An independent course structured by the adviser with approval of the department head and school dean. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and have completed 15 hrs. of communications. Projects must be approved by adviser, department head and school dean prior to enrollment.	1-3 hrs. cr.				

Comm 499                    1-3 hrs. cr.  
**Independent Study in Mass Communications**  
 Individually directed study in selected areas for advanced majors in mass communications. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and have completed 15 hrs. of communications. Projects must be approved by the adviser, department head and school dean prior to enrollment.

## English

Hearnes Hall 300, 625-9377

**Faculty** Spector - Head, Ackiss, Brown, Couch, Denniston, Dworkin, Greenlee, Harder, Kumbier, Lambert, Marlowe, Morgan, Preble, Rodgers, Saltzman, Simpson, Spracklen, Walters

The department of English offers basic service courses in composition and literature for all students at the College. These courses emphasize writing and analytical skills and cultivate an appreciation of literature in all its variety. A major in English for the bachelor of arts degree has proved to be an excellent preparation for students who plan to enter business and industry, for students who plan to pursue graduate studies in English and for students who plan to enter professional schools such as law and medicine. Graduates of this program are in such widely diverse occupations as personnel relations, advertising, publishing, sales management, mass communications, and college teaching. Majors in English are expected to exhibit skills in writing, organization and creativity, and they are expected to develop a perception of and appreciation for the human values that grow out of the study of literature.

A major in English for the bachelor of science in education degree is designed for students who wish to prepare to teach English (Plan B) or English plus another field (Plan A) at the secondary level. With the need for excellence in secondary education so pressing, the English faculty work to develop in B.S.E. majors an informed enthusiasm for and dedication to teaching composition and literature so that they in turn will prepare their students well for college and for life.

A minor in English is an excellent choice for students who want supplementary training in English skills, logical thinking, and literary knowledge. Students who wish to minor

in English should arrange a coherent sequence of courses in consultation with the departmental adviser for minors. Students should choose courses on the basis of their backgrounds, their major programs and, above all, their interests.

The department also offers its majors and other students opportunities to use their talents and pursue their interests through such organizations as the English Club and Sigma Tau Delta Honor Society, through publications like *The Winged Lion*, and in projects like English Field Day.

Core Curriculum requirements in Humanities and Fine Arts can be met with the courses listed on page 41 under Area 2, section B and C. English 101 is a prerequisite to all courses except English 80 and 111. English 102 or 111 is a prerequisite to all 300-400 level English courses. The department urges all students to complete English 101 and 102 in their freshman year.

## Bachelor of Arts with a Major in English

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>45</b>
<b>Foreign Language (four courses in one language)</b>	<b>12</b>
<b>English Requirements</b>	<b>42</b>
Eng 301 Modern Grammar	
OR	
Eng 400 History of the English Language	3
One course from Eng 216, 310, 313 and 315	3
English Electives**	36
<b>Electives</b>	<b>29</b>
	<b>128***</b>

\*Two of the English courses listed under Area 2, sections B and C on page 41 satisfy both six of the 51 hours required for the Core Curriculum and six of the 36 hours of English electives required for the major.

\*\*Must be beyond freshman composition and include at least 12 hours at the 300-400 level. The student also will need to satisfy the computer literacy requirement as determined by the English department.

\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science in Education with a Major in English

Grades 9-12 Certification

Plan A One of Two Teaching Fields

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>42</b>
<b>English Requirements</b>	<b>33</b>
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3
Eng 216 Creative Writing	
OR	
Eng 310 Professional Writing	
OR	
Eng 313 Technical Writing	
OR	
Eng 315 Exposition	3
English Literature**	6
American Literature**	6
World Literature**	3
English Elective***	3

**Education Certification Requirements (p. 124-136)**                    37

**Second Teaching Field (some fields exceed 30 hours)**                    30

142

\*Six hours of literature from Area 2, sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

\*\*A list of courses which fulfill these requirements is available in the English department.

\*\*\*Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

## Bachelor of Science in Education with a Major in English

Grades 9-12 Certification

Plan B Single Teaching Field

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>42</b>
<b>English Requirements</b>	<b>42</b>
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3

# 70 / English

Eng 216	Creative Writing
OR	
Eng 310	Professional Writing
OR	
Eng 313	Technical Writing
OR	
Eng 315	Exposition 3
English Literature**	6
American Literature**	6
World Literature**	3
English Electives***	12
<b>Education Certification Requirements (p. 124-136)</b>	<b>37</b>
<b>Electives</b>	<b>4</b>
	<b>128</b>

\*Six hours of literature from Area 2, Sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

\*\*A list of courses which fulfill these requirements is available in the English department.

\*\*\*Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

## Minor in English

	Semester Hours
Eng 216, 310 or 315	3
Eng courses at the 300-400 level	9
Eng Electives (beyond freshman composition)	9
	<b>21*</b>

\*Should be chosen in consultation with an adviser in the English department.

For additional information contact:  
Dr. Stephen Spector  
Office: Hearnes Hall 314  
Phone: 625-9535

## Suggested Order of Study

### Bachelor of Arts Major Code 1501 English Major

Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Hist 110 or 120 U.S. Hist]	3
CORE [Foreign Language]	3
CORE [Math 110 or equivalent]	3
CORE [HPER 101 Physical Activity]	1
Psy 120 College Orientation	1
	<b>14</b>

2nd Semester	
CORE [Eng 102 Comp II]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Foreign Language]	3
Eng Elective	3
CORE [Hist 110, 120 or 320 U.S. History]	3
	<b>15</b>

**Sophomore Year**

1st Semester	
CORE [Foreign Language]	3
CORE [Comm 100 Oral Comm]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetm Wellness]	2
Eng 310 Prof Wrting or Eng Elective	3
	<b>15</b>

For additional information contact:  
Dr. Stephen J. Spector  
Office: Hearnes Hall 314  
Phone: 625-9535

### Bachelor of Science in Education

Major Code 0842

### English Major

### Grades 9-12 Certification

### Plan A One of Two Teaching Fields

Note: Students following Plan A should consult an adviser in English and the other major to work out an individualized program.

### Freshman Year

1st Semester	
Course	Hours
CORE [Eng 101 Comp I]	3
Psy 100 General Psychology	3
CORE [Hist 110 or 120 U.S. Hist]	3
CORE [Math 110 or equivalent]	3
CORE [HPER 101 Physical Activity]	1
Psy 120 College Orientation	1
CORE [Econ 180 Amer Econ Sys]	3
	<b>17</b>

### 2nd Semester

CORE [Eng 102 Comp II]	3
CORE [Lit Survey: Eng/Amer/World]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Bio 101 General Biology]	4
CORE [Art 110, Mus 110 or Th 110]	3
Educ 100 Orientation to Educ I	1
	<b>17</b>

### Sophomore Year

1st Semester	
Take C-Base test.	
CORE [Area 2 C: Eng, Amer, World Lit]	
OR	
Eng 150 Intro to Literature	
OR	
Eng 305 Short Story	3
Eng [Eng, Amer or World Lit]	3
CORE [HPER 103 Lifetm Wellness]	2
CORE [Phys 100 Physical Science]	5
Psy 301 Adolescent Psychology	3
Educ 200 Orientation to Educ II	1
	<b>17</b>

### 2nd Semester

Apply for admission to teacher education during first six weeks of the semester.	
Eng [Eng, Amer or World Lit]	3
Eng [Eng, Amer or World Lit]	3
Psy 302 Exceptional Child	2
Psy 310 Educational Psychology	3
CORE [Comm 100 Oral Comm]	3
CORE [Hist 110, 120 or 320]	3
	<b>17</b>

### Junior Year

Pass media competencies.

1st Semester	
Eng 301 Modern Grammar	3
Eng 310 or Eng Elective	3
Educ 321 Microteaching	2
Educ 329 Ped Theo Meth & Prac	4
Educ 401 Computer Software (opt.)	2
Educ 423 Classroom Management	2
	<b>16</b>

2nd Semester		
Eng 400 Hist of Eng Language	3	
Eng 216 or 315	3	
Eng 330 Lit for Adolescents	3	

9

**Senior Year**

Apply for admission to student teaching. All course work must be completed except for professional semester courses.

## 1st Semester

Eng	Electives	9
Eng 319	Comp for Teachers	3
CORE	[Intern'l Cultural Stu]	3

15

## 2nd Semester

Educ 332	Tching Eng in Sec Sch	2
Educ 462	Student Teaching	8
Educ 402	Foundations	2
Educ 432	Critical Issues	2
Educ 412	Indiv Curriculum Dev (2)	

## OR

Educ 420	Intro to Counseling** (3)	
Psy 412	Meas & Eval (2)	2-3

## Educ 422

Reading in Sec School*	2
	18-19

## [Department Recommendations]

\*May be taken any semester after completing the junior block.

\*\*Offered at night only. Must be taken the semester prior to student teaching.

For additional information contact:

Dr. Stephen Spector  
Office: Hearnes Hall 314  
Phone: 625-9535

**Bachelor of Science in Education****English Major****Plan B Single Teaching Field  
Grades 9-12 Certification****Freshman Year**

## 1st Semester

Course		Hours
CORE	[Eng 101 Comp I]	3
Psy 100	General Psychology	3
CORE	[Hist 110 or 120]	3
CORE	[Math 110 or equiv]	3
CORE	[HPER 101 Physical Activity]	1
Psy 120	College Orientation	1
CORE	[Econ 180 Amer Econ Sys]	3

17

## 2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Lit Survey: Eng/Amer/World]	3
CORE	[Psy 100 Gen Psychology]	3
CORE	[Bio 101 General Biology]	4
CORE	[Art 110, Mus 110 or Th 110]	3
Educ 100	Orientation to Educ I	1

17

**Sophomore Year**

## 1st Semester

CORE	[Area 2-C: Eng/Amer/World]	3
Eng	[Eng, Amer or World Lit]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Phys 100 Physical Science]	5
Psy 301	Adolescent Psychology	3
Educ 200	Orientation to Educ II	1

17

**Course Descriptions**

## Eng 080

3 hrs. cr.

**Basic Composition**

Offered through the Learning Center, for students whose placement scores indicate they are not prepared to enter English 101. Students will write at least six major papers with special attention given to mechanics, grammar, syntax, paragraphing and organization. Students must pass English 80 before registering for English 101. No credit toward baccalaureate degree.

## Eng 101

3 hrs. cr.

**College Composition I**

(Writing Intensive)

An introduction to the principles of college-level writing and critical thinking based upon expository models. Successful completion of the course permits the student to enroll in English 102. Students demonstrating exceptional ability as indicated by placement scores may be permitted to substitute English 111. (Meets Core Curriculum requirements.)

## Eng 102

3 hrs. cr.

**College Composition II**

(Writing Intensive)

Continued development of writing skills. Initiation, development and completion of a research paper. Prerequisite: English 101. (Meets Core Curriculum requirements.)

## Eng 111

3 hrs. cr.

**Advanced College Composition**

(Writing Intensive)

For students whose placement scores demonstrate exceptional proficiency. With a grade of "C" or better in English 111, a student also automatically receives three hrs. credit for English 101, thereby satisfying the six hour composition requirement. However, students receiving a D in English 111 must take English 102.

## Eng 150

3 hrs. cr.

**Introduction to Literature**

An examination of literary themes, techniques, and approaches reflected in the genres of fiction, poetry, and drama. (Meets Core Curriculum requirements.)

## Eng 160

3 hrs. cr.

**Introduction to Film Studies**

An introduction to the study of film as a literary genre and art form. Two hrs. lecture, 2 hrs. lab.

## Eng 216

3 hrs. cr.

**Creative Writing**

(Writing Intensive)

Writing of prose, poetry and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills. Prerequisite: English 101.

## Eng 261

3 hrs. cr.

**Masterpieces of World Literature**

Selected literature through the Renaissance, excluding British and American literature. (Meets Core Curriculum requirements.)

## [Department Recommendations]

\*May be taken any semester after completing the junior block.

\*\*Offered at night only. Must be taken the semester prior to student teaching.

For additional information contact:

Dr. Stephen Spector  
Office: Hearnes Hall 314  
Phone: 625-9535

## 72 / English

Eng 262 <b>Masterpieces of World Literature</b> Selected literature from the Renaissance to the present, excluding British and American literature. (Meets Core Curriculum requirements.)	3 hrs. cr.	Eng 317 <b>Creative Writing: Fiction</b> ( <i>Writing Intensive</i> ) An advanced course in the writing of fiction, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216	3 hrs. cr.	Eng 385 <b>Continental Novel</b> Representative works by European novelists of the nineteenth and twentieth centuries. Emphasis is on the major European novelists such as Tolstoy, Dostoevsky, and Kafka. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)	3 hrs. cr.
Eng 271 <b>English Literature</b> Survey of English literature from its beginnings through the eighteenth century. (Meets Core Curriculum requirements.)	3 hrs. cr.	Eng 319 (F) <b>Composition for Teachers</b> ( <i>Writing Intensive</i> ) For prospective teachers of English. A review of grammar, practice in writing, and the theory of teaching writing.	3 hrs. cr.	Eng 390 <b>Comparative Epic</b> Intensive study of a range of Western and non-Western epic poetry and prose, with emphasis on literature from non-English speaking cultures.	3 hrs. cr.
Eng 272 <b>English Literature</b> Survey of English literature from the Romantic Movement to the present. (Meets Core Curriculum requirements.)	3 hrs. cr.	Eng 325 <b>Children's Literature</b> A reading, lecture and observation course for elementary education students, including evaluation of children's literature, its historical development, and its uses in the elementary school. Does not count toward an English major.	3 hrs. cr.	Eng 391 <b>Comparative Lyric Poetry</b> Intensive study of a range of European and non-European lyric poetry in translation.	3 hrs. cr.
Eng 281 <b>American Literature</b> A survey of American literature from its beginning to the Civil War. (Meets Core Curriculum requirements.)	3 hrs. cr.	Eng 330 <b>Literature for Adolescents</b> An extensive reading course for English education students including evaluation of adolescent literature, some methodology for classroom use, and a major unit on minority literature.	3 hrs. cr.	Eng 400 (S) <b>History of the English Language</b> The ancestors of English and the effect of other languages, peoples, and cultures upon the development of English. Phonology, morphology, syntax, and usage of the language throughout its history.	3 hrs. cr.
Eng 282 <b>American Literature</b> A survey of American literature from the Civil War to the present. (Meets Core Curriculum requirements.)	3 hrs. cr.	Eng 335 <b>Women's Literature</b> A study of the literary tradition of women authors writing in English.	3 hrs. cr.	Eng 410 <b>Medieval English Literature</b> Literature of England in the Anglo-Saxon and Middle English periods. Emphasis on the works of Chaucer.	3 hrs. cr.
Eng 298 (Demand) <b>Explorations in Literature</b> Studies in a variety of literary subjects. Topic open.	3 hrs. cr.	Eng 340 <b>Black American Literature</b> Writings by Black Americans from the Colonial Period to the present.	3 hrs. cr.	Eng 415 <b>Renaissance Prose and Poetry</b> English poetry and prose from 1500 to 1660. Focus on major figures such as Sidney, Spenser, Donne, Marvell, and Milton.	3 hrs. cr.
Eng 301 (F) <b>Modern Grammar</b> Survey of the major descriptive approaches to English grammar, emphasizing generative transformational syntax. Also focuses on dialect, usage, and practical classroom applications.	3 hrs. cr.	Eng 345 <b>The American Novel</b> Representative works of authors such as Hawthorne, Melville, Twain, and Faulkner.	3 hrs. cr.	Eng 420 <b>English Drama to 1800</b> English drama from its beginnings to 1800 (excluding Shakespeare). Focus on the period of great English drama of the Renaissance and on Restoration comedy. Includes major figures such as Marlowe, Jonson, Webster, and Congreve.	3 hrs. cr.
Eng 305 <b>The Short Story</b> An indepth study of the short story with representative writers from throughout the world. (Meets Core Curriculum requirements.)	3 hrs. cr.	Eng 350 <b>Recent American Fiction</b> The major movements in American fiction since World War II.	3 hrs. cr.	Eng 425 <b>Restoration and Eighteenth Century English Literature</b> Poetry and prose in England from 1660-1798, representing Neoclassicism and the Enlightenment. Focus on major figures such as Dryden, Pope, Swift, Johnson, and Burns.	3 hrs. cr.
Eng 310 <b>Professional Writing</b> ( <i>Writing Intensive</i> ) An advanced course focused on the technical writing demands of professional occupations. Prerequisite: 6 hrs. composition.	3 hrs. cr.	Eng 355 <b>Arthurian Literature</b> Emphasizes the origins and development of Arthurian legends in the Middle Ages; studies treatment of Arthurian literature in modern times. Works read in modern English translation.	3 hrs. cr.	Eng 430 <b>The Romantic Period</b> English literature from 1798 to 1832 treating representative authors from Wordsworth through Keats.	3 hrs. cr.
Eng 313 <b>Technical Writing</b> ( <i>Writing Intensive</i> ) An advanced composition course focused on the practical demands of on-the-job writing. Designed primarily for upperlevel students preparing for careers in science, technology or social science. Prerequisite: Six hours of composition.	3 hrs. cr.	Eng 360 <b>Modern World Drama</b> World drama from Ibsen to the present. Selections from European, British, American, Asian and African playwrights.	3 hrs. cr.	Eng 435 <b>The Victorian Period</b> English literature from 1832 to 1901 examining representative authors such as Tennyson, Carlyle, Browning, and Dickens.	3 hrs. cr.
Eng 315 <b>Exposition</b> ( <i>Writing Intensive</i> ) The techniques of factual writing. Recommended for all students, especially those planning professional careers. Prerequisite: 6 hrs. composition.	3 hrs. cr.	Eng 370 <b>Twentieth Century Poetry</b> British and American poetry from Yeats to the present.	3 hrs. cr.	Eng 450 (F) <b>Shakespeare</b> Selected comedies, histories, tragedies, romances, and poems.	3 hrs. cr.
Eng 316 <b>Creative Writing: Poetry</b> ( <i>Writing Intensive</i> ) An advanced course in the writing of poetry, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216.	3 hrs. cr.	Eng 380 <b>The English Novel</b> Studies in the English novel from 1700 to the present, featuring representative works from authors such as Austen, Dickens, and Joyce.	3 hrs. cr.		

Eng 455	3 hrs. cr.
<b>English Literature: Major Figures</b>	
An intensive study of a major author or authors whose contribution to English literature is of significant worth. May be repeated with variation of author.	
Eng 460	
3 hrs. cr.	
<b>American Literature: Major Figures</b>	
An intensive study of a major author or authors whose contribution to American literature is of significant worth. May be repeated with variation of author.	
Eng 480	3 hrs. cr.
<b>Literary Criticism</b>	
Major schools of criticism and the major representatives of each school.	
Eng 498	3 hrs. cr.
<b>Seminar in Literature</b>	
For advanced English majors or by permission of department head. Topic open.	
Eng 499	1-3 hrs. cr.
<b>Independent Study</b>	
Individually directed study in selected areas for advanced English majors. Prerequisite: a GPA of 3.0 in English. Enrollment must be approved by adviser, department head and school dean.	

## Foreign Languages and Literatures

Webster Hall 353, 625-9580

**Faculty** Massa - Head, Bodon, Crawford, Peterson, Schweizer, Weber

Once it was simply said that fluency in a second language would be a valuable social and business asset. Now, however, a second language is deemed a necessity in solving many of the world's problems of this and the next century. The problems, we have learned, have their beginnings in understanding one another's words, ideas, cultures and beliefs. For business, foreign language skills have become an advantage, as *The Wall Street Journal* has pointed out editorially: "American managers with language skills open more doors." And *The New York Times* wrote: "American ignorance of other tongues has been hurting American business executives...."

In a college with an international mission, it becomes the task of the department of communications and its faculty in foreign languages to help students achieve communications skills in a non-native language.

To that end, the department has structured its foreign language offerings on a proficiency-based system of instruction so that students who enroll in a course will know at what level of general language proficiency they may begin and at what level they will end. Language study becomes, therefore an extremely practical tool.

By proceeding through a sequence of courses at the 100-and 200-level, students may prepare themselves for study at the Advanced level of language usage and then by further courses, combined with foreign study, achieve an Advanced Plus ability in language. This Advanced Plus proficiency will permit a student to perform successfully an internship abroad and during such an internship, even greater language proficiency may be developed.

A major in Spanish permits an in-depth study of the cultural heritages of various Hispanic civilizations. Extensive study in any of the languages offered, however, when combined with majors in business, political science or communications, as some examples, is especially valuable for students of the 1990s. Whether the students' interests are in the European community, the booming tourism profession, Pacific Rim trade or international politics, they will wish to develop a high level of proficiency in a foreign language.

For all students, the department provides opportunities for study abroad. The department also offers advice concerning the role of language study in career planning. Whether enrolled or not in an international program, students may wish to examine the possibilities offered by foreign language study in enriching their careers. Membership in Beta Rho Chapter of Phi Sigma Iota, national honorary society in foreign languages, is available to outstanding students.

Students who have had no previous foreign language training are advised to enroll in a 101 course. Students with one year of high school foreign language classes also should enroll in a 101 course. Students who had two years of a language in high school may enroll in a 102 course of the same language, if they received at least a "B" in the high school language. Students who had three or four years of high school foreign language study may enroll in a 203 course in the same language, provided their high school grades were a "B" average in that language. Students who may have attained a proficiency greater than that offered in a 203 course will be placed appropriately after an assessment is made of their skills. In all cases, students should arrange with their instructors to "test-out" of lower-numbered courses to receive credit.

Questions concerning the foreign language program should be addressed to the department of communications.

## Bachelor of Arts with a Major in Spanish

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Computer Literacy Requirement:</b>	
Comp 105 Intro to Micro Use	3
<b>Foreign Language</b>	<b>12</b>
<b>Spanish Requirements</b>	<b>33</b>
Span 204 Intermediate Spanish II	3
Span Electives chosen with approval of Spanish adviser, but must include 306 or 307; 321 or 322; and 333 or 334. At least 3 additional hours must be upper-division.	30
<b>Supporting Requirements: (choose two)</b>	<b>6</b>
Comm 305 Intercultural Communication	3
GB 310 International Business	3
PSc 321 International Relations	3
OR any other approved upper-division course in an international field of study	
<b>Electives</b>	<b>23</b>
	<b>128*</b>

\*Must include at least 40 upper-division (300-400 level) hours.

## Bachelor of Science in Education with a Major in Spanish

Grades K-12 Certification  
Plan A One of Two Teaching Fields

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>
<b>Computer literacy Requirement:</b>	<b>48</b>
Educ 401 Use of Computer Software in the Classroom	2
<b>Spanish Requirements**</b>	<b>34</b>
Span 101 Beginning Spanish I	3
Span 102 Beginning Spanish II	3
Span 203 Intermediate Spanish I	3
Span 204 Intermediate Spanish II	3
Span 210 Beginning Conversation	2
Span 300 Spanish Composition and Syntax	3
Span 302 Introduction to Hispanic Literature	3
Span 305 Advanced Conversation	2
Span 306 Introduction to Spanish Civilization	3
Span 307 Introduction to Latin American Civilization	3

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Span 320	Advanced Spanish Composition	3
Span 321	Peninsular Literature (El Cid to Calderon)	
OR		
Span 322	Peninsular Literature (Romantics to Present)	
OR		
Span 333	Survey of Spanish-American Literature I	
OR		
Span 334	Survey of Spanish-American Literature II	3
<b>Education Certification Requirements (p. 124-136)</b>		38-39
<b>Second Teaching Field (some fields exceed 30 hrs.)</b>		30
		<b>152-153***</b>

\*Required courses in psychology satisfies the requirements for three hours of the Core Curriculum.

\*\*A candidate for a degree under Plan A must meet with the Spanish faculty for three orientation sessions at the time of declaring a Spanish education major. These sessions will cover requirements of the program, and a mentor will be assigned the student.

\*\*\*A minimum of 128 hours required for a degree, but the exact number depends on the second field. In this example, the total number of hours is greater than 128.

## Bachelor of Science in Education with a Major in Spanish

### Grades K-12 Certification

### Plan B Single Teaching Field

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>48</b>
<b>Computer Literacy Requirement:</b>	
<b>Educ 401 Use of Computer Software in the Classroom</b>	<b>2</b>
<b>Spanish Requirements**</b>	<b>39</b>
Span 101 Beginning Spanish I	3
Span 102 Beginning Spanish II	3
Span 203 Intermediate Spanish I	3
Span 204 Intermediate Spanish II	3
Span 210 Beginning Conversation	2
Span 300 Spanish Composition and Syntax	3
Span 302 Introduction to Hispanic Literature	3
Span 304 Spanish Phonology	2
Span 305 Advanced Conversation	2
Span 306 Introduction to Spanish Civilization	3
Span 307 Introduction to Latin American Civilization	3
Span 320 Advanced Spanish Composition	3

Span 321	Peninsular Literature (El Cid to Calderon)	
OR		
Span 322	Peninsular Literature (Romantics to Present)	3
Span 333	Survey of Spanish-American Literature I	
OR		
Span 334	Survey of Spanish-American Literature II	3

### Education Certification Requirements (p. 124-136)

**Electives**

<b>2nd Semester</b>		
Span 102	Beginning Spanish II	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[HPER 101 Physical Activity]	1
		<b>15</b>

### Sophomore Year

<b>1st Semester</b>		
Span 203	Intermediate Spanish I	3
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		<b>16</b>

### 2nd Semester

Span 204	Intermediate Spanish II	3
Span 210	Beginning Conversation	2
CORE	[Psy 100 or Soc 110]	3
Comp 105	Intro to Micro Use	3
CORE	[Hist 320 U.S. History]	3
Elective*		3
		<b>17</b>

### Junior Year

<b>1st Semester</b>		
Span 300	Spanish Comp & Syntax	3
Span 305	Advanced Conversation	2
CORE	[Econ 180 Amer Econ Sys]	3
Electives*		10
		<b>18</b>

### 2nd Semester

Span 302	Intro to Hispanic Lit	3
Span 307	Intro to Lat Amer Civ	3
Span 320	Advanced Span Comp	3
Span 322	Peninsular Literature	3
	Supporting Requirements	6
		<b>18</b>

### Senior Year

<b>1st Semester</b>		
Span 304	Spanish Phonology	2
Span 306	Intro to Span Civilization	3
Span 321	Peninsular Literature	3
Span 333	Survey of Span-Amer Lit I	3
Electives*		5
		<b>16</b>

### 2nd Semester

Span 334	Survey of Span-Amer Lit II	3
Span 400	20th Cen Span Drama	3
Electives*		10
		<b>16</b>

\*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

[Department Recommendations]

For additional information contact:

Mr. Richard W. Massa

Office: Webster Hall 362

Phone: 625-9372

### Suggested Order of Study

#### Bachelor of Arts

Major Code 1105

#### Spanish Major

##### Freshman Year

###### 1st Semester

Course		Hours
Span 101	Beginning Spanish I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1

**Bachelor of Science in Education**  
 Major Code 0847  
**Spanish Major (Plan B)**  
**Grades K-12 Certification**  
**Single Teaching Field**

**Freshman Year**

1st Semester		Hours
Course		
Span 101	Beginning Spanish I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[HPER 103 Lifetm Wellness]	2
Psy 120	College Orientation	1
Educ 100	Orientation to Educ I	1
		<b>16</b>
2nd Semester		
Span 102	Beginning Spanish II	3
Psy 100	General Psychology	3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
		<b>16</b>

**Sophomore Year**

1st Semester		Hours
<i>Take C-Base Test.</i>		
Span 203	Intermediate Spanish I	3
Educ 200	Orientation to Educ II	1
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Psy 305	Developmental Psychology	4
		<b>19</b>
2nd Semester		
<i>Apply for admission to teacher education.</i>		
Span 204	Intermediate Spanish II	3
Span 210	Beginning Conversation	2
Psy 310	Educational Psychology	2
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 General Biology]	4
Educ 302	The Exceptional Child	2
		<b>16</b>

**Junior Year**

*Pass media competencies.*

1st Semester		Hours
Span 300	Spanish Comp & Syntax	3
Span 305	Advanced Conversation	2
Comm 305	Intercultural Communication	3
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
		<b>16</b>
2nd Semester		
Span 302	Intro to Hispanic Lit	3
Span 307	Intro to Latin Amer Civ	3
Span 320	Advanced Span Comp	3
Span 322	Peninsular Literature	3
Span 400	20th Cent Span Drama	3
Educ 422	Rdng in Sec Sch	2
		<b>17</b>

**Senior Year**

*Apply for student teaching. All course work must be completed except for Professional Semester courses.*

1st Semester

Span 304	Spanish Phonology	2
Span 306	Intro to Span Civilization	3
Span 333	Survey of Span-Amer Lit I	3
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 412	or Educ 420** or Educ 423 or Psy 412	2-3
		<b>16-17</b>

2nd Semester

Educ 402	Foundations of Educ	2
Educ 432	Critical Issue in Educ	2
Educ 345	Tchng For Lang K-12	2
Educ 401	Use of Comp Sftwr in Clsmr	2
Educ 462	Student Teaching	8
		<b>16</b>

\*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

\*\*Must be taken prior to the student teaching semester.

[Department Recommendations]

For additional information contact:

Mr. Richard W. Massa  
 Office: Webster Hall 362  
 Phone: 625-9372

## **Course Descriptions**

### **Arabic (Ara)**

Ara 101 (Demand) 3 hrs. cr.

**Beginning Arabic I**

Fundamental elements of modern standard Arabic. Basic sentence patterns and grammar.

Ara 102 (Demand) 3 hrs. cr.

**Beginning Arabic II**

A continuation of 101. Further introduction to the basic skills of listening to and speaking the Arabic language. Prerequisite: Ara 101.

Ara 203 (Demand) 3 hrs. cr.

**Intermediate Arabic I**

Systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Ara 102.

Ara 204 (Demand) 3 hrs. cr.

**Intermediate Arabic II**

Continuation of 203. Further systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Arabic 203.

### **Chinese (Chi)**

Chi 101 (Demand)

3 hrs. cr.

**Beginning Chinese I (Mandarin)**

Pronunciation, grammar, elementary conversation, development of basic communicative skills.

Chi 102 (Demand)

3 hrs. cr.

**Beginning Chinese II (Mandarin)**

A continuation of 101. Pronunciation, grammar, elementary conversation. Prerequisite: Chi 101.

Chi 203 (Demand)

3 hrs. cr.

**Intermediate Chinese I (Mandarin)**

Systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 102.

Chi 204 (Demand)

3 hrs. cr.

**Intermediate Chinese II (Mandarin)**

A continuation of Chinese 203. Further systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 203.

Fren 101 (F, S)

3 hrs. cr.

**Beginning French I**

An introduction to the basic skills of understanding, speaking, reading and writing in French and to the study of the French-speaking cultures.

Fren 102 (F, S)

3 hrs. cr.

**Beginning French II**

A continuation of Fren 101. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French-speaking cultures. Prerequisite: Proficiency level of NOVICE or Fren 101.

Fren 203 (F, S)

3 hrs. cr.

**Intermediate French I**

A continuation of Fren 102. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Fren 102.

Fren 204 (F, S)

3 hrs. cr.

**Intermediate French II**

A continuation of Fren 203. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE or Fren 203.

Fren 298 (Demand)

1-8 hrs. cr.

**Selected Topics in French**

Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

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Fren 301 (F, S) <b>Readings &amp; Conversation</b> Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS or Fren 204.	3 hrs. cr.	Ger 203 (F, S) <b>Intermediate German I</b> A continuation of Ger 102. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Ger 102.	3 hrs. cr.	Jpn 203 (Demand) <b>Intermediate Japanese I</b> Grammar review and continued aural/oral practice. Prerequisite: Jpn 102.	3 hrs. cr.
Fren 302 (F, S) <b>Readings in Literature &amp; Culture</b> Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED or Fren 301.	3 hrs. cr.	Ger 204 (F, S) <b>Intermediate German II</b> A continuation of Ger 203. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Ger 203.	3 hrs. cr.	Jpn 204 (Demand) <b>Intermediate Japanese II</b> Continuation of Japanese 203 with additional grammar review and continued aural/oral practice. Prerequisite: Jpn 203.	3 hrs. cr.
Fren 303 (Demand) <b>French Composition</b> Practice in writing French accompanied by a study of grammar and syntax. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Fren 204.	3 hrs. cr.	Ger 298 (Demand) <b>Selected Topics in German</b> Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.	1-8 hrs. cr.	Rus 101 (F, S) <b>Beginning Russian I</b> Emphasis on the basic communicative skills of listening, speaking, reading and writing the Russian language. Structural grammar and basic vocabulary.	3 hrs. cr.
Fren 304 (Demand) <b>Advanced French Composition</b> Practice in writing French compositions. Thorough study of grammar, syntax and idiomatic expressions. Prerequisite: Proficiency level of ADVANCED, or Fren 303.	3 hrs. cr.	Ger 301 (F, S) <b>Readings &amp; Conversation</b> Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Ger 204.	3 hrs. cr.	Rus 102 (F, S) <b>Beginning Russian II</b> A continuation of 101. Further introduction to the basic skills of listening to, speaking, reading and writing the Russian language. Prerequisite: Rus 101 and proficiency level of NOVICE.	3 hrs. cr.
Fren 322 (Demand) <b>Survey of French Literature</b> French literature of the eighteenth, nineteenth and twentieth centuries. Prerequisite: Proficiency level of ADVANCED.	3 hrs. cr.	Ger 302 (F, S) <b>Readings in Literature and Culture</b> Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED or Ger 301.	3 hrs. cr.	Rus 203 (F, S) <b>Intermediate Russian I</b> Systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 102 and a proficiency level of NOVICE PLUS.	3 hrs. cr.
Fren 498 (Demand) <b>Seminar in French</b> Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.	1-8 hrs. cr.	Ger 498 (Demand) <b>Seminar in German</b> Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.	1-8 hrs. cr.	Rus 204 (F, S) <b>Intermediate Russian II</b> A continuation of Rus 203. Further systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 203 and proficiency level of INTERMEDIATE.	3 hrs. cr.
Fren 499 (Demand) <b>Independent Study</b> Individual directed study in French. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.	1-3 hrs. cr.	Ger 499 (Demand) <b>Independent Study</b> Individually directed study in German. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.	1-3 hrs. cr.	Span 101 (F, S) <b>Beginning Spanish I</b> An introduction to the basic skills of understanding, speaking, reading and writing in Spanish and to the study of the Spanish speaking cultures.	3 hrs. cr.
<h2>German (Ger)</h2> Ger 101 (F, S) <b>Beginning German I</b> An introduction to the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures.	3 hrs. cr.	<h2>Japanese (Jpn)</h2> Jpn 101 (Demand) <b>Beginning Japanese I</b> Pronunciation, conversation and grammar. Aural/oral drill.	3 hrs. cr.	Span 102 (F, S) <b>Beginning Spanish II</b> A continuation of Spanish 101. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures. Prerequisite: Proficiency level of NOVICE, or Span 101.	3 hrs. cr.
Ger 102 (F, S) <b>Beginning German II</b> A continuation of Ger 101. Emphasis on the skills of understanding, speaking and writing in German and to the study of the German speaking cultures. Prerequisite: Proficiency level of NOVICE, or Ger 101.	3 hrs. cr.	Jpn 102 (Demand) <b>Beginning Japanese II</b> Continuation of Japanese 101. Additional work in pronunciation, conversation and grammar. Aural/oral drill. Prerequisite: Jpn 101.	3 hrs. cr.	Span 203 (F, S) <b>Intermediate Spanish I</b> A continuation of Span 102. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Span 102.	3 hrs. cr.

# Foreign Languages, Geography / 77

Span 204 (F, S) 3 hrs. cr.	Span 307 (S) 3 hrs. cr.	Span 499 (F, S) 1-3 hrs. cr.
<b>Intermediate Spanish II</b> A continuation of Span 203. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Span 203.	<b>Introduction to Latin American Civilization</b> Continued development of the four basic language skills in the language through reading and conversation in Latin American Culture. The study of more complex patterns in communicative skills is emphasized. Taught in Spanish. Prerequisite: Proficiency level of INTERMEDIATE PLUS or Span 300.	<b>Independent Study</b> Individually directed study in selected areas for advanced majors in Spanish. Prerequisite: Must have completed 90 hrs. with a cumulative GPA of 3.0 and must have 15 hrs. in Spanish. The proposed study must be approved by instructor, adviser, department head and school dean prior to enrollment.
Span 210 (S) 2 hrs. cr.	Span 320 (S, Even) 3 hrs. cr.	298 (Demand) 1-5 hrs. cr.
<b>Beginning Conversation</b> Emphasis on basic survival skills of understanding, speaking, and reading in Spanish, and on the study of Spanish speaking cultures at the INTERMEDIATE level. Prerequisite: Span 203. (This course may not count towards the 12 hour B.A. requirement in foreign language.)	<b>Advanced Spanish Composition</b> Advanced study of the three major components of Spanish grammar, with emphasis on: verbal moods, lexical items, the effects of stress, idiomatic usage, orthography, the principles of translation and composition. Prerequisite: Proficiency level of ADVANCED, or Span 300.	<b>Special Topics in Foreign Languages</b> Languages not currently a part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific target language will be structured with the objective of developing the speaking, understanding, reading and writing skills of the student in the target language. Each offering will have a syllabus stating specific requirements of the course as well as prerequisites.
Span 298 (Demand) 3 hrs. cr.	Span 321 (F, Even) 3 hrs. cr.	498 (Demand) 1-5 hrs. cr.
<b>Selected Topics in Spanish</b> Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus.	<b>Peninsular Literature from El Cid to Calderon</b> Spain's literary history and important representative works and writings from El Cid to Calderon. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED, or Span 300.	<b>Advanced Topics in Foreign Languages</b> Advanced studies in foreign languages and literatures not currently part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific language will be structured with the objective of developing further the speaking, understanding, reading and writing skills of the student in the target language, as well as developing a further awareness of the literature of the specific language. Each offering will have a syllabus stipulating specific requirements of the course as well as prerequisites.
Span 300 (F) 3 hrs. cr.	Span 322 (S, Odd) 3 hrs. cr.	
<b>Spanish Composition and Syntax</b> Initial oral and written composition with emphasis on grammar; verbal aspect, modals, and tense contrasts through significant practice and sentence drills. Prerequisite: A proficiency level of INTERMEDIATE PLUS, or Span 204.	<b>Peninsular Literature from the Romantics to the Present</b> Spanish literature since 1830 with emphasis on Romanticism, Realism, the generation of 1898, contemporary poetry and novel. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED, or Span 300.	
Span 302 (S) 3 hrs. cr.	Span 333 (F, Odd) 3 hrs. cr.	
<b>Introduction to Hispanic Literature</b> Peninsular, Latin American and U.S. literature in Spanish viewed in representative works of several genres at levels appropriate for students initiating their study of literature with a modest amount of historical background and culture. Prerequisite: Span 300 or equivalent ADVANCED proficiency level.	<b>Survey of Spanish-American Literature I</b> Survey of Spanish American literature from its beginnings to Martí. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or 320.	
Span 304 (F, Even) 2 hrs. cr.	Span 334 (S, Even) 3 hrs. cr.	
<b>Spanish Phonology</b> Advanced study of the Spanish sound system: Phonemic composition, historical antecedents, contemporary convention and variation. Study includes: contrasting inventories, syllabification, descriptive analysis, intonation as signal, accentual norms, word groups and consideration of dynamics and dialectology. Prerequisite: Proficiency level of ADVANCED, or Span 300.	<b>Survey of Spanish-American Literature II</b> Survey of Spanish American literature from Martí to present. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or 320.	
Span 305 (F) 2 hrs. cr.	Span 400 (F, Even) 3 hrs. cr.	
<b>Advanced Conversation</b> Spanish language and culture in the framework of the students' potential areas of contact: personal, travel and occupational. Conversation is the major course component. Prerequisite: Span 210, or equivalent proficiency level.	<b>20th Century Spanish Drama</b> Select works by Spain's most prominent, contemporary playwrights; socio-economic contexts, political ideologies and diverse life styles; dramatic literature and its impact on the cultural life of the nation. Prerequisites: A proficiency level of ADVANCED or Span 300.	
Span 306 (F) 3 hrs. cr.	Span 498 (Demand) 1-3 hrs. cr.	
<b>Introduction to Spanish Civilization (Writing Intensive)</b> Continued development of the four basic language skills through reading and conversation in Spanish culture. The study of more complex patterns in communicative skills is emphasized. Taught in Spanish. Prerequisite: A proficiency level of INTERMEDIATE PLUS, or Span 300.	<b>Seminar in Spanish Language/Literature</b> For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Proficiency level of ADVANCED and at least 15 hrs. of upper-division Spanish courses.	

## Other Languages

298 (Demand)	1-5 hrs. cr.
<b>Special Topics in Foreign Languages</b>	Languages not currently a part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific target language will be structured with the objective of developing the speaking, understanding, reading and writing skills of the student in the target language. Each offering will have a syllabus stating specific requirements of the course as well as prerequisites.
498 (Demand)	1-5 hrs. cr.
<b>Advanced Topics in Foreign Languages</b>	Advanced studies in foreign languages and literatures not currently part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific language will be structured with the objective of developing further the speaking, understanding, reading and writing skills of the student in the target language, as well as developing a further awareness of the literature of the specific language. Each offering will have a syllabus stipulating specific requirements of the course as well as prerequisites.

## Geography

Webster Hall 241, 625-9564

**Faculty** Tate - Head, Sale, Schmidt

Geography offers students a variety of employment possibilities. These range from positions in secondary education to opportunities in government and business planning.

Though a major is not now offered, sufficient hours are available to meet social studies teacher certification standards. Students may, with the supervision of a social science adviser, take a geography minor consisting of 18 semester hours.

# 78 / Geography, Geology, History

## Minor in Geography

	Semester Hours
<b>Geog 211 Regions and Nations</b>	<b>3</b>
<b>Choose 6 hours from:</b>	<b>6</b>
Geog 311 Political Geography	3
Geog 322 Economic Geography	3
Geog 412 Geography and Culture of Latin America	3
Geog 422 Geography of the U.S. and Canada	3
Geog 498 Seminar in Geography	3
<b>Choose 9 hours from:</b>	<b>9</b>
Draf 230 Survey and Mapping	3
CJAD 210 Basic Photography	3
Comp 115 Computing I	3
Geol 300 Environmental Geology	3
PSc 322 International Law	3
PSc 332 Comparative Government: Latin America	3
Soc 155 Physical Anthropology and Archaeology	3
Soc 361 The Study of Populations*	3
Soc 402 The Community*	3
	<b>18</b>

\*See Prerequisites

## Course Descriptions

Geog 211 (F, S) 3 hrs. cr.

### Regions and Nations

Survey of the peoples of the earth and how their activities are influenced by climate, topography and natural resources.

Geog 298 (Demand) 3 hrs. cr.

### Topics in Geography

Special geography topics of current interest. Subjects and instructors are changed each semester. Students are encouraged to submit areas of interest to the social science department.

Geog 311 (Demand) 3 hrs. cr.

### Political Geography

Geographic factors which have influenced international relations and the policies of nations as political units. Emphasis on geopolitics, religion, racial and ethnic groupings and other factors which contribute to unity or disunity.

Geog 322 (Demand) 3 hrs. cr.

### Economic Geography

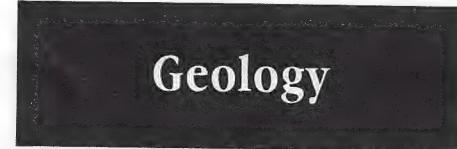
World commodities and the geographic factors which affect their production and make them significant to the world economy.

Geog 412 (Demand) 3 hrs. cr.

### Geography and Culture of Latin America

Cultural and physical regions and natural resources of South America, Latin America, Central America and the Caribbean Islands. Special emphasis on current problems and relations with the United States.

Geog 422 (Demand)	3 hrs. cr.	Geol 300 (S, Even)	4 hrs. cr.
<b>Geography of the United States and Canada</b>		<b>Environmental Geology</b>	
Geographic analysis of the United States and Canada with emphasis on regional variations of social, economic and physical phenomena.		An introduction to man's relationship to the earth's environment. The limitations of natural resources and future projections are considered along with man's demands upon the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisite: Phys 100.	
Geog 498 (Demand)	1-2-3 hrs. cr.	Geol 320 (S, Even)	4 hrs. cr.
<b>Seminar in Geography</b>		<b>Historical Geology</b>	
Study and analysis of selected topics in regional, urban-economic, cultural or physical geography.		A comprehensive study of the history of the earth within a plate-tectonics context. Emphasizes the global evolution of landscapes and the fossil record. Laboratory includes geologic mapping, the interpretation of geologic history from map and fossil data, and fossil identification. Three hours of lecture and one 2-hr. lab per week. Prerequisites: Geol 110.	
Geog 499	1-2-3 hrs. cr.	Geol 498 (Demand)	1-3 hrs. cr.
<b>Independent Study</b>		<b>Studies in Geology</b>	
For students who wish to do an in-depth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The individualized project will be directed by an instructor/adviser from the geography faculty in consultation with the student.		Topics vary. Seminar and/or field study for upper division students. Regular weekly meetings and/or field trips relating to topics of interest in the earth sciences. Extended field trips will require special lab fee. Prerequisites: Geol 320 and/or consent of the instructor.	



Reynolds Hall 210, 625-9376

**Faculty** Baiamonte - Head, Knapp

Geology courses are used to supplement other major areas of study and for state certification for teaching general science at the 7-12 grade levels.

Geol 300 (S, Even)

### Environmental Geology

An introduction to man's relationship to the earth's environment. The limitations of natural resources and future projections are considered along with man's demands upon the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisite: Phys 100.

Geol 320 (S, Even)

### Historical Geology

A comprehensive study of the history of the earth within a plate-tectonics context. Emphasizes the global evolution of landscapes and the fossil record. Laboratory includes geologic mapping, the interpretation of geologic history from map and fossil data, and fossil identification. Three hours of lecture and one 2-hr. lab per week. Prerequisites: Geol 110.

Geol 498 (Demand)

### Studies in Geology

Topics vary. Seminar and/or field study for upper division students. Regular weekly meetings and/or field trips relating to topics of interest in the earth sciences. Extended field trips will require special lab fee. Prerequisites: Geol 320 and/or consent of the instructor.

Geol 499 (Demand)

### Problems in Geology

Individual work under the supervision of a staff member with credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and the consent of the supervising instructor. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of science, Geol 110 and a proven interest in geology.

## Course Descriptions

Geol 110 (S, Odd) 5 hrs. cr.

### Introduction to Geology

Materials of the earth, structures and geologic features of the surface in relation to the processes and forces producing them. Laboratory study of minerals and rocks and topographic and geologic maps. Additional one-day field trips may be required. Three lectures, two 2-hr. labs per week. Prerequisite: Phys 100.

Geol 180 (F, Odd) 3 hrs. cr.

### Introduction to Meteorology

Fundamentals of the circulation of the atmosphere, sequence of weather events and climate. Includes interpretation of weather maps and climatic data. Three lectures per week. Prerequisite: Physics 100 or equivalent.

## History

Webster Hall 241, 625-9564

**Faculty** Tate - Head, Holman, Laas, Markman, Sale, Schmidt, Tannenbaum, Teverow

A bachelor of arts degree with a major in history prepares students for entering career positions in business, governmental and community service fields and for entry into graduate programs in the social sciences and law. A bachelor of science in education with a major in social studies - history emphasis - certifies a student to enter professional teaching at the secondary school level. A minor in history is available for students majoring in other disciplines. Also see page 102 for a social sciences minor or the social studies for secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by History 110 and History 120 or 320. History 130 or 140 may also be used to meet certain Core Curriculum requirements. History 110 or 120 is a prerequisite for all upper division U.S. history courses. History 320 substitutes for 120, but may not be used to fulfill upper division history requirements.

History 130 or 140 is a prerequisite for all upper division European or Asian history courses.

Hist 130 or 140 cannot be taken as a corequisite with any upper division European or Asian history course.

## Bachelor of Arts with a Major in History

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>42</b>
<b>Computer Literacy Requirement - determined by Social Sciences Department</b>	<b>2-3</b>
<b>Foreign Language (four courses in one language)</b>	<b>12</b>
<b>History Requirements</b>	<b>33</b>
Hist 110 U. S. History 1492-1877	3
Hist 120 U. S. History 1877-Present	
OR	
Hist 320 U. S. History 1877-Present	3
Hist 130 Western Civilization to 16603	
Hist 140 Western Civilization Since 1660	3
Hist 497 Seminar in Historical Research**	3
OR	
Hist 499 Independent Study (Internship)**	3
Hist Upper Division U.S.**	6
Hist Upper Division European or Asian**	6
Hist Upper Division Electives**	6
<b>Electives</b>	<b>38-39</b>
	<b>128***</b>

\*Required History courses satisfy Major requirements and 9 hours of Core Curriculum.

\*\*See Prerequisites.

\*\*\*Must include at least 40 upper division (300-400 level) hours.

## Bachelor of Science in Education with a Major in Social Studies

Grades 9-12 Certification  
History Emphasis

### Plan B Single Teaching Field

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>33</b>
<b>History Requirements</b>	<b>33</b>
Hist 110 U.S. History 1492-1877	3
Hist 120 U. S. History 1877-Present	
OR	
Hist 320 U. S. History 1877-Present	3
Hist 130 Western Civilization to 16603	
Hist 140 Western Civilization Since 1660	3
Hist 497 Seminar in Historical Research**	3
OR	
Hist 499 Independent Study (Internship)**	3
Hist Upper Division U.S.**	6
Hist Upper Division European	3
Hist Upper Division Asian**	3
Hist Upper Division Electives**	6
<b>Supporting Requirements</b>	<b>21</b>
PSc 120 Gov't: U.S./State/Local	3
PSc Upper Division Elective	3
Soc 110 Introduction to Sociology	3
Soc Upper Division Elective	3
Geog 211 Regions and Nations	3
Geog Upper Division Elective	3
Econ 180 Amer Econ System	3
<b>Education Certification Requirements (p. 124-136)</b>	<b>39-40</b>
<b>Elective</b>	<b>1-2</b>
	<b>128</b>

\*Required history, political science, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.

\*\*See Prerequisites

## Minor in History

	Semester Hours
Hist 110 U.S. History 1492-1877	3
Hist 120 U. S. History 1877-Present	
OR	
Hist 320 U. S. History 1877-Present	3
Hist 130 Western Civilization To 1660	
OR	
Hist 140 Western Civilization Since 1660	3
Hist Upper Division U.S. Elective*	3
Hist Upper Division European*	
OR	
Hist Upper Division Asian Elective*	6
	<b>18</b>

\*Must be chosen with approval of history adviser.

## Minor in Social Studies for Secondary Education

See page 103.

### Suggested Order of Study

#### Bachelor of Arts

Major Code 2205

#### History Major

##### Freshman Year

1st Semester

Course	Hours
Hist 110 U.S. History 1492-1877*	3
CORE [Eng 101 Comp I]	3
CORE [Math 110 Intro to Col Math]	3
CORE [HPER 103 Lifetm Wellness]	2
CORE [HPER 101 Physical Activity]	1
CORE [Humanities and Fine Arts]	3
Psy 120 College Orientation	1
	<b>16</b>

##### 2nd Semester

Hist 120 U. S. History 1877-Present*	
OR	
Hist 320 U. S. History 1877-Present*	3
CORE [Eng 102 Comp II]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Bio 101 Gen Biology]	4
CORE [Comm 100 Oral Comm]	3
	<b>16</b>

##### Sophomore Year

1st Semester

Hist 130 Western Civilization to 1660	3
Foreign Language	3
CORE [Eng Literature]	3
Elective	3
CORE [Econ 180 Amer Econ Sys]	3
	<b>15</b>

##### 2nd Semester

Hist 140 West Civil Since 1660	3
Foreign Language	3
CORE [Soc 110 Intro to Sociology]	3
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Computer Literacy course selected with adviser's approval]	3
	<b>17</b>

##### Junior Year

1st Semester

Hist Upper Div U.S. (not 320)	3
CORE [Humanities and Fine Arts]	3
CORE [International Cultural Stu]	3
Foreign Language	3
Elective [A minor is suggested]	3
	<b>15</b>

##### 2nd Semester

Hist Upper Division U.S. (not 320)	3
Foreign Language	3
Electives [A minor is suggested]	9

**15**

# 80 / History

## Senior Year

1st Semester		
Hist	Upper Div Eur or Asian	3
Hist	Upper Div Elective (not 320)	3
Electives	[A minor is suggested]	9
<b>15</b>		

## 2nd Semester

2nd Semester		
Hist	Upper Div Eur or Asian	3
Hist	Upper Div Elective (not 320)	3
Hist 497	Seminar in Historical Research	
OR		
Hist 499	Independent Study**	3
Electives	[A minor is suggested]	7
<b>16</b>		

\*Also meets a Core Curriculum requirement.

\*\*See Prerequisites

[Department Recommendations]

For additional information contact:

Dr. Robert Markman  
Office: Webster Hall 243  
Phone: 625-9740

## Bachelor of Science in Education

Major Code 0843

### Social Studies Major (Plan B) Single Teaching Field Grades 9-12 Certification History Emphasis

## Freshman Year

1st Semester		
Course		Hours
Hist 110	U.S. History 1492-1877*	3
CORE	[Eng 101 Comp I]	3
Psy 100	General Psychology	3
CORE	[Math 110 Intro to Col Math]	3
Psy 120	College Orientation	1
Educ 100	Orientation to Education I	1
CORE	[Comm 100 Oral Comm]	3
		<b>17</b>

## 2nd Semester

2nd Semester		
Hist 120	U.S. History 1877-Present*	
OR		
Hist 320	U.S. History 1877-Present*	3
CORE	[Eng 102 Comp II]	3
PSc 120	Gov't: U.S./State/Local*	3
CORE	[Bio 101 General Biology]	4
CORE	[IHPER 101 Activities]	1
Elective		3
		<b>17</b>

## Sophomore Year

1st Semester		
<i>Take C-Base test.</i>		
Hist 130	Western Civilization to 1660	3
CORE	[Eng Literature]	3
CORE	[IHPER 103 Lifetm Wellness]	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 200	Orientation to Education II	1
Psy 301	Adolescent Psychology	3
		<b>17</b>

## 2nd Semester

*Apply for admission to Teacher Education.*

Hist 140	Western Civil 1660-Present	3
Geog 211	Regions and Nations	3
Soc 110	Intro to Sociology*	3
CORE	[Humanities and Fine Arts]	3
Psy 310	Educational Psychology	2
Educ 302	Exceptional Child	2
		<b>16</b>

## Junior Year

### 1st Semester

*Pass media competencies.*

Hist	Upper Div U.S. (not 320)	3
Econ 180	Amer Econ System	3
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 401	Use of Comp Sftwr in Clsrm	2
Educ 423	Classroom Management	2
		<b>16</b>

## 2nd Semester

Hist	Upper Div U.S. (not 320)	3
Hist	Upper Div Eur or Asian	3
Anth 342	Comparative Cultures	3
Hist	Upper Div Elective (not 320)	3
PSc	Upper Division Elective	3
		<b>15</b>

## Senior Year

### 1st Semester

*Apply for admission to student teaching. All course work must be completed except Professional Semester courses.*

Hist	Upper Div Elective (not 320)	3
Hist	Upper Div Eur or Asian	3
Hist 497	Seminar in Historical Research	
OR		
Hist 499	Internship	3
Geog	Upper Division Elective	3
CORE	[Humanities and Fine Arts]	3
Educ 422	Rdng in Secondary School	2
		<b>17</b>

## 2nd Semester

Educ 334	Tchng Soc Sci in Sec Sch	2
Professional Semester		14
		<b>16</b>

See pages 124-136 for specific education department requirements.

\*Also meets a Core Curriculum requirement.

For additional information contact:

Dr. David Tate  
Office: Webster Hall 245  
Phone: 625-9564

## Course Descriptions

### U. S. History

Hist 110 (F, S) 3 hrs. cr.

#### **United States History 1492-1877**

Survey of the United States from the era of discovery through reconstruction. Meets the Core Curriculum requirement for all majors. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

Hist 120 (F, S) 3 hrs. cr.

#### **United States History 1877 to Present**

Survey of the economic, social and political development of the United States from 1877 to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

Hist 298 (Demand) 3 hrs. cr.

#### **Topics in History**

Special historical topics are examined. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Hist 305 (F) 3 hrs. cr.

#### **Introduction to Public History**

Public history serves the public through training and education of social science students in policy analysis, information gathering and dissemination, preservation, organizational management and cultural resources management. This introduction to the applied historical profession features a direct participant approach.

Hist 310 (Demand) 3 hrs. cr.

#### **United States Social and Intellectual History**

Ideas, values and institutions that have nurtured and influenced the United States during the great industrial expansion, and emergence as a technology leader to the dilemmas of the 1970's and 1980's. Prerequisite: Three hrs. of history or consent of instructor.

Hist 315 (Demand) 3 hrs. cr.

#### **Economic History of the United States**

Development of the American economy and its related institutions from the early national period to the present.

Hist 320 (Demand) 3 hrs. cr.

#### **United States History 1877 to Present**

Survey of the United States from Reconstruction to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Prerequisite: Hist 110.

Hist 325 (F, Odd) 3 hrs. cr.

#### **The American Frontier**

The westward expansion of the United States and its effects upon the social, political and economic institutions into the twentieth century.

Hist 330 (Demand) <b>History of the American Indian</b> Social, political, diplomatic, military and legal history of the native American society.	3 hrs. cr.	Hist 405 (Demand) <b>The United States 1870-1920</b> United States at the turn of the century with the impact of the Industrial Revolution and its effect on social, political and economic institutions, the Progressive Movement and World War I.	3 hrs. cr.	Hist 298 (Demand) <b>Topics in History</b> Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.	3 hrs. cr.
Hist 335 (F, Even) <b>Diplomatic History of the United States to 1900</b> Diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900.	3 hrs. cr.	Hist 410 (S, Even) <b>The United States Since 1920</b> Impact of politics, diplomacy and economic trends of the United States since 1920.	3 hrs. cr.	Hist 369 (Demand) <b>Nineteenth Century Europe</b> Major alterations of European society during this century. Emphasis on industrialization, imperialism, revolutions, rise of socialism/communism, middleclass liberal capitalism and individual national events.	3 hrs. cr.
Hist 340 (S, Odd) <b>Diplomatic History of the United States since 1900</b> An investigation of United States' diplomacy in the present-day world. Emphasizes the role of the United States in world affairs.	3 hrs. cr.	Hist 496 <b>Internship in History</b> Practical, professional training in archival skills and museum management in an area historical museum, archival institution or historic site, under the supervision of a faculty member and a professional from the participating institution. No more than three hours may be counted toward a major or minor. Prerequisite: Junior standing or above and departmental approval.	3-8 hrs. cr.	Hist 370 (Demand) <b>Twentieth Century Europe</b> A survey approach with emphasis on World Wars I and II, the League of Nations, the United Nations, totalitarian systems and current European/world problems.	3 hrs. cr.
Hist 343 (F) <b>Cold War America</b> Diplomacy, 1945 to Present An investigation of United States diplomacy and the present-day world. Emphasizes the role of the United States in world affairs.	3 hrs. cr.	Hist 497 (F, S) <b>Seminar in Historical Research</b> (Writing Intensive) Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior standing, Eng 102 and 6 hrs. upper-division history.	3 hrs. cr.	Hist 371 (Demand) <b>The Holocaust</b> An examination of the destruction of the European Jews from 1933 to 1945, with special attention to the social, political, and scientific context of the Holocaust. Special attention to European antisemitism, the rise of German Nazism, the development of a policy of mass murder, and the operation of ghettos and death camps.	3 hrs. cr.
Hist 345 (Demand) <b>Age of Jefferson and Jackson</b> Early political development in the United States. Evolution of the presidency over the first years of the new government, the triumph of Jeffersonian ideas, social trends and the rise of nationalism.	3 hrs. cr.	Hist 498 (F or S) <b>Special Topics in History</b> Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.	3 hrs. cr.	Hist 375 (F, Even) <b>English History to 1660</b> (Writing Intensive) The peoples of England and their institutions from prehistoric settlement through the English civil wars. Major topics include the impact of Anglo-Saxon and Norman invasions, the changing roles of monarchy and of parliament, and life among various social classes.	3 hrs. cr.
Hist 350 (S) <b>Civil War and Reconstruction</b> Causes of the Civil War, slavery and reform movements before the Civil War. Traces the development of reconstruction and political developments of the era.	3 hrs. cr.	Hist 499 (F, S) <b>Independent Study</b> Individualized project directed by the instructor/adviser with approval of department head and school dean. Advanced standing in the major field and a minimum GPA of 3.0 are required.	1-2-3 hrs. cr.	Hist 380 (S, Odd) <b>English History Since 1660</b> English people and institutions from the restoration of Charles II to the present. Concentration on the emergence of modern Parliamentary democracy, the industrial revolution, the Empire and current position of England in world affairs.	3 hrs. cr.
Hist 355 (F, Even) <b>The South</b> Social, economic, political and intellectual history of the Southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.	3 hrs. cr.	Hist 130 or Hist 140 is a prerequisite for any upper level European History course.		Hist 387 (F, Odd) <b>History of Russia to 1796</b> History of Russia from pre-Tsarist times through the reign of Peter the Great. Emphasis on the land and the people, national characteristics and political institutions.	3 hrs. cr.
Hist 360 (F, Odd) <b>History of Missouri</b> Missouri's growth from its early settlement to the present. Emphasis on political, economic, institutional and social development.	3 hrs. cr.	Hist 130 (F, S) <b>Western Civilization to 1660</b> Development and progress of western civilization from its origins through the Reformation. Changes in political organization, religion, artistic expression and daily life in the ancient Near East, Greece, Rome and Christian Europe. May be used to meet the Core Curriculum requirement in Area 5.	3 hrs. cr.	Hist 388 (S, Even) <b>History of Russia Since 1796</b> Russia since the reign of Catherine the Great until the recent demise of the Soviet Union. Investigates the problems posed by Tsarist Autocracy and Serfdom, the origins and course of the Bolshevik Revolution, Russian life under communism, and the structural weaknesses and events contributing to the collapse of the Soviet Union.	3 hrs. cr.
Hist 365 (Demand) <b>United States Colonial History</b> (Writing Intensive) Colonial development from 1492 to 1781. Early colonization and British imperial policy are emphasized along with social, cultural, political and economic growth. Includes the Revolutionary War period.	3 hrs. cr.	Hist 140 (F, S) <b>Western Civilization Since 1660</b> Western societies from the Baroque Era to the retreat of European colonialism. Major emphasis on development of the nation-state, the impact of industrialization, changes in political and religious outlook, the impact of revolutions and two world wars. May be used to meet the Core Curriculum requirement in Area 5.	3 hrs. cr.	Hist 390 (Demand) <b>History of Germany</b> Social, political, military and economic history of Germany, with major concentration on the post 1519 period. Emphasis on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich and post World War II.	3 hrs. cr.

## **82 / History, Mathematics**

Hist 420 (F, Odd) <b>Medieval History</b> Europe from the end of the Roman Empire to c. 1350. Emphasis on the emergence of the Papacy, manorialism and feudalism, the development of cities and an urban economy, and on intellectual life and artistic expression.	3 hrs. cr.	Hist 415 (F, Even) <b>History of China</b> Survey of Chinese history from ancient through modern periods. Emphasis on Chinese society, political developments, and relations with the West and Japan in the nineteenth and twentieth centuries.	3 hrs. cr.	Hist 497 (F, S) <b>Seminar in Historical Research</b> <i>(Writing Intensive)</i> Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.	3 hrs. cr.
Hist 425 (S, Even) <b>The Renaissance and the Reformation 1350-1559</b> An overview of Europe from 1350 to 1559. Changes in thought and artistic expression, the divisions within Western Christendom, the emergence of national monarchies, and the impact of economic change on daily life.	3 hrs. cr.	Hist 430 (Demand) <b>History of Japan</b> Survey of Japanese history from ancient through modern periods. Emphasis on Japanese society, political developments, and relations with the West since the middle of the nineteenth century. Attention is given to Japan's rapid economic development since the 1860s and its rise as a world power.	3 hrs. cr.		
Hist 435 (F, Even) <b>The Era of the French Revolution and Napoleon</b> An examination and analysis of events in France and their impact on Europe from 1789 to 1815. Interplay of ideas and people and the quest for a political settlement under a constitutional monarchy, republic and empire.	3 hrs. cr.	Hist 460 (S, Odd) <b>History of India</b> Survey of traditional and modern India from the Harappan Culture to the present. Course emphasizes developments in Indian culture, society, and politics, focusing on themes, trends, events, and individuals since ca. 1700.	3 hrs. cr.		
Hist 440 (S, Even) <b>European Intellectual History</b> Intellectual, cultural and social developments in Europe from the Italian Renaissance to the present. Examination of the rise of scientific thought, the Enlightenment, Romanticism, nationalism, political ideologies, social reforms and existentialism.	3 hrs. cr.	Hist 497 (F, S) <b>Seminar in Historical Research</b> <i>(Writing Intensive)</i> Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.	3 hrs. cr.		
Hist 497 (F, S) <b>Seminar in Historical Research</b> <i>(Writing Intensive)</i> Topics pertaining to an era or historical problem of special interest the instructor and student. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.	3 hrs. cr.	Hist 498 (F or S) <b>Special Topics in History</b> Advanced topics not covered in other history offerings. Emphasis is placed on the student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.	3 hrs. cr.		
Hist 498 (F or S) <b>Special Topics in History</b> Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.	3 hrs. cr.	Hist 499 (F, S) <b>Independent Study</b> Individualized project directed by the instructor/adviser prior to enrollment in the study. Advanced standing in the major field and a minimum GPA of 3.0 are required.	1-2-3 hrs. cr.		
Hist 499 (F, S) <b>Independent Study</b> Individualized project directed by the instructor/adviser with approval of the department head and the school dean prior to enrollment. Advanced standing in the major field and a minimum GPA of 3.0 are required.	1-2-3 hrs. cr.				
<b>Asian History</b>		<b>Global History</b>			
Hist 298 (Demand) <b>Topics in History</b> Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.	3 hrs. cr.	Hist 341 (F) <b>Problems in Recent Diplomatic History</b> Selected issues in recent global history from the perspective of a United Nations member state. Each student will investigate one issue, share the results of the research with the class and in a paper explain the historical background of the selected nation's position on the issue. Both the nation and topics studied will be determined by MSSC's participation in the Midwest Model United Nations and similar conferences. Although the course is a prerequisite for delegates to these conferences, enrollment is not limited to Model UN participants. May be repeated up to 9 hrs.	3 hrs. cr.		

## **Mathematics**

Reynolds Hall 210, 625-9376

**Faculty** Vazquez - Head, Cassens, Curtis, Elick, Flood, Harmon, Jolly, Livingston, Martin, Mulkey, Noel, Thuong, Wolfe

In an increasingly technological society, applications of mathematics continue to increase in variety. Persons with quantitative ability and training are in high demand. Career opportunities exist in a diversity of fields such as engineering, computer science, economics, statistics, operations research, management and education. Missouri Southern graduates are enjoying success in all of these areas. Some graduates choose to begin careers immediately upon graduation; others choose to continue their education in graduate school. The curriculum is designed to prepare students for either path. The computational mathematics option allows a student to obtain a double major in mathematics and computer science.

For the student wishing to prepare for a career in engineering, the mathematics department and the physical science department have worked in close cooperation with the staff at the University of Missouri-Rolla to develop a "Model Program for Engineering Transfers." Students may obtain a copy of this pamphlet from the department head. The program consists basically of two years at Missouri Southern and two years at Rolla. Naturally, time spent at either institution varies depending on the student's individual rate of progress.

Core Curriculum requirements for the bachelor's and the associate of arts degree can be met with any mathematics course numbered 110 or above. Note the limitations on Math 111 in the course descriptions.

Core Curriculum requirements for the associate of science degree can be met with any mathematics course numbered 030 or above.

For students majoring in mathematics or mathematics education only courses in which they have earned a grade of "C" or above can be used to satisfy departmental mathematics requirements.

### Bachelor of Science with a Major in Mathematics

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>43</b>
<b>Mathematics Requirements</b>	<b>39</b>
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 342 Abstract Algebra**	3
OR	
Math 351 Linear Algebra**	3
Math Electives numbered above 320***	18
<b>Supporting Requirements</b>	<b>18</b>
Physics and/or chemistry electives-must include at least one course from each (excluding Chem 100, Phys 100, Phys 101, Phys 120, Phys 140, Phys 180, Phys 300)	15
Comp 110 (or above)	3
<b>Electives</b>	<b>28</b>
	<b>128****</b>

\*Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

\*\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics.

### Bachelor of Science with a Major in Mathematics Computational Mathematics Option\*

	Semester Hours
<b>Core Requirements (p. 41) 51**</b>	<b>43</b>
<b>Mathematics Requirements</b>	<b>33</b>
Math 150 Calculus with Analytic Geometry I***	5
Math 250 Calculus with Analytic Geometry II***	5
Math 260 Calculus with Analytic Geometry III***	5
Math 300 Fundamentals of Mathematical Thought***	3
Math 350 Introduction to Numerical Analysis***	3
OR	
Math 431 Numerical Analysis***	3
Math 351 Linear Algebra***	3
Math 371 Introduction to Operations Research (WI)***	3
Math Electives numbered above 320***	6
<b>CIS</b>	<b>33</b>
<b>Core</b>	<b>33</b>
Comp 110 Programming I	3
Comp 210 Programming II	3
Comp 234 Business Data Processing Techniques (COBOL)	3
CIS 335 Object Oriented Program	3
CIS 345 Computer Networks	3
CIS 350 Data Structures	3
CIS 360 Computer Graphics	3
CIS 425 Database Management Systems (WI)	3
CIS 430 Introduction to Artificial Intelligence	3
CIS 450 Operating Systems (WI)	3
CIS Electives numbered above 305	3

### Supporting Requirements

Physics and/or chemistry electives must include at least one course from each (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180, and Phys 300)

### Electives

6

**Total** 128

\*This program is the same as the bachelor of science in CIS, computer science (Option 2). See page 151. Students selecting this option will graduate with a double major, mathematics and computer information science.

\*\*Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.

\*\*\*See Prerequisites

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics.

### Bachelor of Science in Education with a Major in Mathematics

Grades 9-12 Certification	One of Two Teaching Fields
<b>Plan A</b>	
<b>Core Requirements (p. 41) 51*</b>	<b>45</b>
<b>Mathematics Requirements</b>	<b>30</b>
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 332 Geometry**	3
Math 342 Abstract Algebra**	
OR	
Math 351 Linear Algebra**	3
Math 361 Introduction to Probability**	3
Math Elective***	3
<b>Supporting Requirements</b>	<b>3</b>
Comp 110 (or above, substitutes for Educ 401)	3
<b>Education Certification Requirements (p. 124-136)</b>	<b>39-40</b>
<b>Second teaching field (some fields exceed 30 hours)</b>	<b>30</b>
	<b>147-148****</b>

\*Required courses in mathematics and psychology satisfy major requirements and 6 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

\*\*\*\*(varies with 2nd field)

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics education.

### Bachelor of Science in Education with a Major in Mathematics

Grades 9-12 Certification	Single Teaching Field
<b>Plan B</b>	
<b>Core Requirements (p. 41) 51*</b>	<b>40</b>
<b>Mathematics Requirements</b>	<b>33</b>
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3

# 84 / Mathematics

Math 332	Geometry**	3	
Math 342	Abstract Algebra**		
OR			
Math 351	Linear Algebra**	3	
Math 361	Introduction to Probability**	3	
Math	Electives numbered above 320***	6	
<b>Supporting Requirements</b>		<b>13</b>	
Physics and/or Chemistry electives - must include courses from both (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180)		10	
Comp 110 (or above, substitutes for Educ 401)		3	
<b>Education Certification Requirements (p. 124-136)</b>		<b>39-40</b>	
<b>Electives</b>		<b>2-3</b>	
		<b>128</b>	

\*Required courses in mathematics, chemistry, physics and psychology satisfy major requirements and 11 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics education.

## Minor in Mathematics

		Semester Hours
Math 150	Calculus with Analytic Geometry I	5
Math 250	Calculus with Analytic Geometry II	5
Math	Electives numbered above 250*	11
		<b>21</b>

\*At least 6 hours upper division (excluding Math 302).

	<b>2nd Semester</b>	
Math 250	Calc w/Anal Geo II	5
CORE	[Eng 102 Comp II (WI)]	3
Phys 250	General Physics I	4
Comp 110	Programming I	3
CORE	[Comm 100 Oral Comm]	3
		<b>18</b>

	<b>Sophomore Year</b>	
1st Semester		
Math 260	Calc w/Anal Geo III	5
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Hist 110 U.S. History]	3
CORE	[HPER 103 Lifetm Wellness]	2
Elective	Phys or Chemistry*	3-5
		<b>16-18</b>

	<b>2nd Semester</b>	
Math 300	Fund of Math Thought	3
Math	Elective [322]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Area 2 Elective]	3
CORE	[Hist 120 or 320 U.S. Hist]	3
		<b>15</b>

	<b>Junior Year</b>	
1st Semester		
Math	Electives**	6
CORE	[Area 2 Elective]	3
Elective	Chem or Physics*	3-5
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		<b>15-17</b>

	<b>2nd Semester</b>	
Math	Electives**	6
CORE	[Bio 101 General Biology]	4
CORE	[HPER 101 Physical Activity]	1
CORE	[Area 5 Elective]	3
Elective		3
		<b>17</b>

	<b>Senior Year</b>	
1st Semester		
Math Electives**		6
Electives		9
		<b>15</b>

	<b>2nd Semester</b>	
Math Electives**		6
Electives		9
		<b>15</b>

\*See requirements and exclusions on page 83.  
\*\*Electives must be approved by math adviser.

[Department Recommendations]

For additional information contact:  
Juan Vazquez, Department Head  
Office: Reynolds Hall 212  
Phone: 625-9540

## Bachelor of Science

Major Code 1702

### Computational Mathematics Option

#### Freshman Year

1st Semester		
Course		Hours
Comp 110	Programming I	3
Math 150	Calc w/Anal Geo I	5
CORE	[Eng 101 Comp I (WI)]	3
Chem 101	General Chemistry I	4
Psy 120	College Orientation	1
		<b>17</b>

#### 2nd Semester

Comp 210	Programming II	3
Math 250	Calc W/Anal Geo II	5
CORE	[Eng 102 Comp II (WI)]	3
Phys 250	General Physics I	5
CORE	[HPER 101 Physical Activity]	1
		<b>17</b>

#### Sophomore Year

1st Semester		
Comp 234	Bus DP Tech (COBOL)	3
CIS 335	Object Oriented Program	3
Math 260	Calc w/Anal Geo III	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. History]	3
		<b>17</b>

#### 2nd Semester

CIS 345	Computer Networks	3
CIS 350	Data Structures	3
Math 300	Fund of Math Thought	3
CORE	[Psy 100 or Soc 110]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Area 2 Elective]	3
		<b>17</b>

#### Junior Year

1st Semester		
CIS 430	Intro to Artif Intell	3
Math 371	Intro Ops Research (WI)	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 120 or 320 U.S. Hist]	3
CORE	[Area 2 Elective]	3
		<b>16</b>

#### 2nd Semester

CIS 425	Database Mgmt Systems (WI)	3
Math 350	Intro to Num Analysis	3
Math	Elective**	3
CORE	[Area 5 Elective]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		<b>15</b>

#### Senior Year

1st Semester		
CIS 450	Operating Sys (WI)	3
Math 351	Linear Algebra	3
Chem/Phys	Elective*	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective		3
		<b>15</b>

#### 2nd Semester

CIS 360	Computer Graphics	3
CIS	Elective	3
Math	Elective**	3
CORE	[Area 2 Elective]	3
Elective		3
		<b>15</b>

## Bachelor of Science Major Code 1701 Mathematics

### Freshman Year

1st Semester		
Course		Hours
Math 150	Calc w/Anal Geo I	5
Chem 101	General Chemistry I	5
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Area 2 Elective]	3
Psy 120	College Orientation	1
		<b>17</b>

\*See requirements and exclusions on page ???.  
\*\*Electives must be approved by math adviser.

[Department Recommendations]

For additional information contact:  
Juan Vazquez, Department Head  
Office: Reynolds Hall 212  
Phone: 625-9540

**Bachelor of Science in Education**

Major Code 0833

**Mathematics Major**

**Grades 9-12 Certification**

**(Plan B) Single Teaching Field**

**Freshman Year**

1st Semester

Course		Hours
Math 150	Calc w/Anal Geo I	5
CORE	[Eng 101 Comp I (WI)]	3
Psy 100	General Psychology	3
CORE	[HPER 103 Lifetm Wellness]	2
Educ 100	Orientation to Educ I	1
Psy 120	College Orientation	1
		15

2nd Semester

Math 250	Calc w/Anal Geo II	5
Chem 101	General Chemistry I*	5
CORE	[Eng 102 Comp II (WI)]	3
Comp 110	Programming I	3
CORE	[HPER 101 Physical Activity]	1
		17

**Sophomore Year**

1st Semester

Math 260	Calc w/Anal Geo III	5
Phys 250	General Physics I*	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Area 2 Elective]	3
Educ 200	Orientation to Educ II	1
		17

2nd Semester

*Apply for admission to Teacher Education.*

Math 300	Fund of Math Thought	3
CORE	[Bio 101 General Biology]	4
CORE	[Area 2 Elective]	3
Psy 301	Adolescent Psychology	3
CORE	[Hist 110 U.S. History]	3
		16

**Junior Year**

1st Semester

*Pass media competencies.*

Math 332		
OR		
Math 361		
Math	Elective**	3
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
CORE	[Hist 120 or 320 U.S. Hist]	3
		17

2nd Semester		
Math	Electives**	6
CORE	[PSc 120 Gov't; U.S./Sta/Loc]	3
Psy 310	Educational Psychology	2
Psy 302	Exceptional Child	2
CORE	[Area 2 Elective]	3
		16

**Senior Year**

1st Semester

*Apply for admission to student teaching. All course work must be completed except Professional Semester courses.*

Math 332		
OR		
Math 361		
Math	Elective**	3
CORE	[Area 5 Elective]	3
CORE	[Econ 180 Amer Econ Sys]	3
Educ 422	Rdng in the Sec School	2
	Elective	3
		17

2nd Semester

Educ 339	Tchng Math in Sec Schools	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling*** (3)	
OR		
Psy 412	Meas & Eval	2-3
Educ 462	Student Teaching	8
		17-18

\*See requirements and exclusions on page 84.

\*\*Electives must be approved by math adviser.

\*\*\*Offered at night only. Must be taken the semester prior to student teaching.

[Department Recommendations]

For additional information contact:

Juan Vazquez, Department Head

Office: Reynolds Hall 212

Phone: 625-9540

## **Course Descriptions**

**Math 020 (F, S)** 3 hrs. cr.

**Beginning Algebra**

Operations on signed numbers, linear equations and inequalities, systems of linear equations, polynomial arithmetic. No credit towards baccalaureate degree.

**Math 030 (F, S)** 3 hrs. cr.

**Intermediate Algebra**

Factoring, operations on polynomials, radicals, quadratic equations. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". No credit towards baccalaureate degree.

**Math 110 (F, S)**

3 hrs. cr.

**Introduction to College Mathematics**

Basic college mathematics with an introduction to various areas of mathematics such as linear programming, set theory, probability and statistics and geometry. Satisfies the requirement in mathematics for the Core Curriculum. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C".

**Math 111 (F, S)**

3 hrs. cr.

**Math for Elementary Teachers I**

The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". (Will not meet the Core Curriculum mathematics requirement for nonelementary education majors.)

**Math 112 (Demand)**

3 hrs. cr.

**Trigonometry**

Trigonometric functions, inverses and their graphs; trigonometric identities and equations; solution of the general triangle; complex numbers. Prerequisite: Two units of high school algebra, one unit high school geometry and satisfactory score on the Mathematics Placement Test or Math 030 with grade of "C".

**Math 120 (F, S)**

3 hrs. cr.

**Math for Elementary Teachers II**

A continuation of Math 111. Sets of points, metric and non-metric geometry, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111 or permission of department.

**Math 130 (F, S)**

3 hrs. cr.

**College Algebra**

Functions and their graphs; polynomial, rational, exponential and logarithmic functions; systems of equations; the binomial theorem. Prerequisite: Two units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test or Math 030 with grade of "C".

**Math 131 (F, S)**

3 hrs. cr.

**Finite Mathematics**

Finite mathematics with algebra that is designed for business, social science and computer science students. Set theory, functions, matrices, linear programming, probability and statistics, with applications. Prerequisite: Two units of high school algebra and satisfactory score on the Mathematics Placement Test or Math 030 with a grade of "C".

**Math 140 (F, S)**

5 hrs. cr.

**Algebra and Trigonometry**

Equivalent of Math 112 and Math 130. Prerequisite: Two units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test or permission of instructor. Only two hours credit for students with Math 112 or Math 130 credit.

# 86 / Mathematics, Music

Math 150 (F, S) 5 hrs. cr. <b>Calculus with Analytic Geometry I</b> Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of "C" or four units of high school mathematics and a satisfactory score on the Mathematics Placement Test.	Math 332 (F, Even) 3 hrs. cr. <b>Geometry</b> Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean and non-Euclidean geometries. Prerequisite: Math 250.	Math 452 (S, Odd) 3 hrs. cr. <b>Mathematical Models</b> ( <i>Writing Intensive</i> ) Applying mathematics in formulating and analyzing models for real world problems. Topics include game theory, graph models, deterministic and stochastic models and computer simulation. Prerequisite Math 260 and Comp 110 or higher.
Math 250 (F, S) 5 hrs. cr. <b>Calculus with Analytic Geometry II</b> Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits and continuity, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of "C".	Math 339 (S) 3 hrs. cr. <b>Teaching Mathematics in Secondary Schools</b> Introduction to the instructional planning, materials and methods of teaching mathematics in the secondary schools. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.	Math 462 (S, Even) 3 hrs. cr. <b>Introduction to Mathematical Statistics</b> Distributions of discrete and continuous random variables, sampling distributions and estimation of parameters. Investigation of the techniques of hypothesis testing, correlation and regression. Prerequisite: Math 361.
Math 260 (F, S) 5 hrs. cr. <b>Calculus with Analytic Geometry III</b> Solid analytic geometry, indeterminate forms, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of "C".	Math 342 (F, Odd) 3 hrs. cr. <b>Abstract Algebra</b> Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains and fields. Prerequisite: Math 300.	Math 498 (Demand) 1-3 hrs. cr. <b>Seminar in Mathematics</b> For upper division math or related majors. Regular meeting times per week are equal to the number of credit hrs. determined by the department for a given semester. Gives both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.
Math 300 (S) 3 hrs. cr. <b>Fundamentals of Mathematical Thought</b> Introduction to modern algebra, analysis and proofs; sets, logic, predicate calculus, relations, functions, logical development of number systems, cardinality and divisibility. Prerequisite or corequisite: Math 260.	Math 350 (S, Odd) 3 hrs. cr. <b>Introduction to Numerical Analysis</b> Error analysis, solution of polynomial and transcendental equations, colocation polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 and Comp 110 or higher.	Math 499 (Demand) 1-3 hrs. cr. <b>Independent Study</b> Course structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Students must make application several weeks in advance. Registration must be approved by the adviser, department head and school dean. See department head for details.
Math 302 (Demand) 3 hrs. cr. <b>Calculus for the Management and Social Sciences</b> Calculus applications of differentiation and integration in business and social sciences. Prerequisite: Math 130 or Math 131 or two years high school algebra and satisfactory score on the Mathematics Placement Test. Will not count toward a major or minor in mathematics.	Math 351 (F, Even) 3 hrs. cr. <b>Linear Algebra</b> Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite or corequisite: Math 300.	Math 361 (F) 3 hrs. cr. <b>Introduction to Probability</b> Theory of probability using concepts and methods of calculus. A study of discrete and continuous distributions. The central limit theorem. Prerequisite: Math 260.
Math 310 (Demand) 3 hrs. cr. <b>Elementary Statistics</b> Provides a basic statistical background for the various majors for advanced study in their specialties. Topics include data reduction, measures of central tendency, linear regression, correlation and hypothesis testing, with applications to social, managerial, biological and physical sciences. Satisfies the Core Curriculum requirements in mathematics. Prerequisite: Two years high school algebra or Math 130. Will not count toward a major in mathematics.	Math 371 (F, Odd) 3 hrs. cr. <b>Introduction to Operations Research</b> ( <i>Writing Intensive</i> ) Operations research/management science for computer science and mathematics students. Includes linear programming, project scheduling, Markov chains, queuing theory. Prerequisite: Math 260 and computer programming ability.	Music Building 214, 625-9318
Math 312 3 hrs. cr. <b>Problems of Teaching Arithmetic in the Elementary Schools</b> (See Educ 312 for description.) Will not count toward a major in mathematics.	Math 421 (S, Odd) 3 hrs. cr. <b>Introduction to Advanced Calculus</b> Methods of real analysis, basic topology of real numbers, sequences and series, the derivative and the Riemann integral. Prerequisite: Math 300.	<b>Faculty</b> Havely - Head, Carnine, Clark, Clinton, Elliott, Harris, Meeks, Thelen
Math 322 (S) 3 hrs. cr. <b>Differential Equations</b> Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions, with applications. Prerequisite: Math 260.	Math 431 (S, Even) 3 hrs. cr. <b>Numerical Analysis</b> Fundamental numerical analysis theorems. Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 322 and Comp 110 or higher.	The department of music offers a bachelor of arts degree and a bachelor of science in education degree with a major in music. Each degree prepares graduates for performance, studio teaching, and/or continued study toward an advanced degree. In addition, the bachelor of science in education degree prepares graduates for teaching in public education.
		Core Curriculum requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110 Music Appreciation.

## Music

Music Building 214, 625-9318

**Faculty** Havely - Head, Carnine, Clark, Clinton, Elliott, Harris, Meeks, Thelen

The department of music offers a bachelor of arts degree and a bachelor of science in education degree with a major in music. Each degree prepares graduates for performance, studio teaching, and/or continued study toward an advanced degree. In addition, the bachelor of science in education degree prepares graduates for teaching in public education.

Core Curriculum requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110 Music Appreciation.

## Bachelor of Arts with a Major in Music

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
Computer Literacy Requirement - determined by music department	2-3
Foreign Language (four courses in one language)	12
<b>Music Requirements</b>	<b>63</b>
Mus 111 Music Theory	3
Mus 112 Music Theory*	3
Mus 182 Conducting Techniques*	2
Mus 211 Music Theory*	3
Mus 212 Music Theory*	3
Mus 240 Recital Attendance (8 semesters)	Cr.
Mus 311 History of Music*	3
Mus 312 History of Music*	3
Mus 420 Form and Analysis*	3
Mus 433 Arranging*	4
Mus 443 Advanced Choral Conducting*	2
Mus 444 Advanced Instrumental Conducting*	2
Mus 450 Senior Recital*	Cr.
Large Music Ensemble (8 semesters)***	8
Private study in one area (8 semesters)	16
Applied keyboard elective (Except keyboard majors)	8
(Keyboard majors must take 8 semester hours of music electives in lieu of the applied keyboard elective.)	<b>128-129**</b>

\*See Prerequisites

\*\*Must include at least 40 upper division (300 - 400 level) hours.

\*\*\*Must be taken the last eight semesters of residency.

## Bachelor of Science in Education with a Major in Music

### Grades Pre K-12 Certification

Plan B	Single Teaching Field
Option 1	Instrumental Emphasis

Semester Hours

<b>Core Requirements (p. 41)</b>	<b>51*</b>	<b>48</b>
<b>Music Requirements</b>		<b>64</b>
Mus 111 Music Theory	3	
Mus 112 Music Theory**	3	
Mus 182 Conducting Techniques**	2	
Mus 211 Music Theory**	3	
Mus 212 Music Theory**	3	
Mus 231 String Techniques	1	
Mus 232 Brass Techniques	2	
Mus 233 Percussion Techniques (Not open to percussion majors. Percussion majors must substitute a 2nd semester of Mus 232 or 234.)	1	
Mus 234 Woodwind Techniques	2	

Mus 240 Recital Attendance (7 semesters)	Cr.	Mus 309 Choral Techniques	2
Mus 311 History of Music**	3	Mus 311 History of Music**	3
Mus 312 History of Music**	3	Mus 312 History of Music**	3
Mus 333 Music for the Elementary Grades***	2	Mus 333 Music for the Elementary Grades***	2
Mus 411 Marching Band Methods**	2	Mus 409 Choral Literature	2
Mus 420 Form and Analysis**	3	Mus 420 Form and Analysis**	3
Mus 432 Music in the Public School***	2	Mus 432 Music in the Public School***	2
Mus 433 Arranging**	4	Mus 433 Arranging**	4
Mus 444 Advanced Instrumental Conducting**	2	Mus 443 Advanced Choral Conducting*	2
Mus 450 Senior Recital**	Cr.	Mus 450 Senior Recital**	Cr.
Mus Piano/Wind Instrument	2	Mus Piano/Voice	6

(a) Instrumental major, other than piano: two semester hours of piano study or the equivalent (Class piano may be included).

(b) Keyboard major: two semester hours of private study on a wind instrument or the equivalent.

The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test.

Private study as a major in one area (7 semesters) 14

Large Ensemble (7 semesters)\*\*\*\* 7

Brass, woodwind or percussion major: the seven semesters of large ensemble must be in band.

String Major: the seven semesters of large ensemble must be in orchestra.

### Education Certification Requirements (p. 124-136)

**40-41  
152-153**

(a) Keyboard Major: six semester hours of private voice study or the equivalent

(b) Voice Major: six semester hours of piano study or the equivalent (two semesters of private study following the satisfactory completion of four semesters of Mus 113).

The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test. Satisfactory completion of four semesters of Mus 113 constitutes passing the Piano Proficiency Test.

Private study as a major in one area (7 semesters) 14

Concert Chorale (7 semesters)\*\*\*\* 7

**Education Certification Requirements (p. 124-136)** **40-41  
152-153**

\*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

\*\*See Prerequisites

\*\*\*Must be completed prior to the Professional Semester of supervised teaching.

\*\*\*\*Must be taken the seven semesters immediately prior to the student teaching semester.

\*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum, Area 3C.

\*\*See Prerequisites

\*\*\*Must be completed prior to the Professional Semester of supervised teaching.

\*\*\*\*Must be taken the seven semesters immediately prior to the student teaching semester.

## Bachelor of Science in Education with a Major in Music

### Grades Pre K-12 Certification

Plan B	Single Teaching Field
Option II	Vocal Emphasis

Semester Hours

<b>Core Requirements (p. 41)</b>	<b>51*</b>	<b>48</b>
<b>Music Requirements</b>		<b>64</b>
Mus 111 Music Theory	3	
Mus 112 Music Theory**	3	
Mus 182 Conducting Techniques**	2	
Mus 211 Music Theory**	3	
Mus 212 Music Theory**	3	
Mus 240 Recital Attendance (7 semesters)	Cr.	

All of the requirements listed for Option I and Option II, either (a) or (b), with the exception of the applied major requirement. 86

Private study as an applied major in one primary area (7 semesters) 14

Private study as an applied elective in one secondary area (4 semesters) 8



**Junior Year**

## 1st Semester

*Pass media competencies.*

Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 427	Applied Music Major Piano	2
Mus 365	Applied Music Voice	1
Mus 321	Concert Chorale	1
Mus 240	Recital Attendance	Cr
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
		<b>18</b>
2nd Semester		
Mus 443	Adv Choral Conducting	2
Mus 312	History of Music	3
Mus 428	Applied Music Major Piano	2
Mus 366	Applied Music Voice	1
Mus 322	Concert Chorale	1
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
CORE	[Anth 342 Comp Cultures]	3
CORE	[Hist 320 U.S. History]	3
Psy 305	Developmental Psychology	4
		<b>21</b>

**Senior Year**

## 1st Semester

*Apply for admission to Student Teaching. All course work must be completed except Professional Semester courses.*

Mus 321	Concert Chorale	1
Mus 432	Music in Public Schools	2
Mus 427	Applied Music Major Piano	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Use of Comp Software in Class (or computer course approved by music dept.)	2
Educ 422	Tching Rding in Sec Sch	2
Mus 433	Arranging	4
		<b>20</b>

## 2nd Semester

Mus 335	Tching Music in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8
		<b>16-17</b>

[Department Recommendations]

\*Must be taken at night, semester prior to student teaching.

**Bachelor of Science in Education**

Major Code 0832

**Music Major**
**Grades Pre K-12 Certification  
(Plan B) Single Teaching Field  
Keyboard Major with Instrumental Emphasis**
**Freshman Year**

## 1st Semester

Course		Hours
Mus 111	Music Theory	3
Mus 227	Applied Music Major Piano	2
Mus 191	Marching Band	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Comp I]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Apprec]	3
Psy 100	General Psychology	3
Educ 100	Orientation to Educ I	1
		<b>17</b>

## 2nd Semester

Mus 112	Music Theory	3
Mus 228	Applied Music Major Piano	2
Mus 192	Concert Band	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Comp II]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[HPER 101 Physical Activity]	1
CORE	[Math 110 Intro to Col Math]	3
CORE	[Econ 180 Amer Econ Sys]	3
		<b>18</b>

**Sophomore Year**

## 1st Semester

*Take C-Base test.*

Mus 232/234 Brass/Woodwind Tech	2	
Mus 211	Music Theory	3
Mus 227	Applied Music Major Piano	2
Mus 240	Recital Attendance	Cr
CORE	[Hist 110 U.S. History]	3
Educ 200	Orientation to Educ II	1
Educ 302	Exceptional Child	2
Mus 191	Marching Band	1
Psy 305	Developmental Psychology	4
		<b>18</b>

## 2nd Semester

*Apply for admission to teacher education.*

Mus 231/233 String/Percussion Tech	1	
Mus 182	Conducting Tech	2
Mus 212	Music Theory	3
Mus 228	Applied Music Major Piano	2
Mus 192	Concert Band	1
Mus 240	Recital Attendance	Cr
CORE	[Hist 120 U.S. History]	3
CORE	[Bio 101 General Biology]	4
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 281 or 282 Lit]	3
		<b>22</b>

**Junior Year**

## 1st Semester

*Pass media competencies.*

Mus 232/234 Brass/Woodwind Tech	2	
Mus 411	Marching Band Methods	2
Mus 444	Adv Instru Conducting	2
Mus	App Mus Woodwind/Brass	1
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 427	Applied Music Major Piano	2
Mus 391	Marching Band	1
Mus 240	Recital Attendance	Cr
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
		<b>24</b>

## 2nd Semester

Mus 231/233 String/Percussion Tech	1	
Mus 312	History of Music	3
Mus 428	Applied Music Major Piano	2
Mus 392	Concert Band	1
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
CORE	[Psc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Art 110 or Th 110]	3
CORE	[Anth 342 Comp. Cultures]	3
		<b>19</b>

**Senior Year**

## 1st Semester

*Apply for admission to student teaching. All course work must be completed except Professional Semester courses.*

Mus 391	Marching Band	1
Mus 432	Music in Public School	2
Mus 427	Applied Music Major Piano	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Use of Comp Sftwr in Cls (or computer course approved by music dept.)	2
Educ 422	Techniques of Reading	2
Mus 433	Arranging	4
		<b>20</b>

## 2nd Semester

Mus 335	Tching Mus in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling (3)*	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8
		<b>16-17</b>

 \*Offered at night only, must be taken semester prior to student teaching.  
 [Department Recommendations]

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## Bachelor of Science in Education

Major Code 0832

### Music Major

(Plan B) Single Teaching Field

Grades Pre K-12 Certification

Vocal Major

### Freshman Year

1st Semester

Course

Mus 111	Music Theory	3
Mus 267	Applied Music Voice	2
Mus 113	Class Piano	1
Mus 121	Concert Chorale	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Comp I]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Apprec]	3
Psy 100	General Psychology	3
Educ 100	Orientation to Educ I	1

Hours  
18

2nd Semester

Mus 112	Music Theory	3
Mus 268	Applied Music Voice	2
Mus 113	Class Piano	1
Mus 122	Concert Chorale	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Comp II]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[HPER 101 Physical Activity]	1
CORE	[Math 110 Intro to Col Math]	3
CORE	[Art 110 or TH 110]	3

19

### Sophomore Year

1st Semester

Take C-Base Test.

Mus 310	Choral Techniques	2
Mus 113	Class Piano	1
Mus 211	Music Theory	3
Mus 267	Applied Music Voice	2
Mus 121	Concert Chorale	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 281 or 282 Lit]	3
Educ 200	Orientation to Educ II	1
Educ 302	Exceptional Child	2
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Hist 110 U.S. History]	3

21

2nd Semester

Apply for admission to Teacher Education.

Mus 113	Class Piano	1
Mus 212	Music Theory	3
Mus 268	Applied Music Voice	2
Mus 122	Concert Chorale	1
Mus 182	Conducting Tech	2
Mus 240	Recital Attendance	Cr
Mus 409	Choral Literature	2
CORE	[Bio 101 General Biology]	4
CORE	[Comm 100 Oral Comm]	3

18

### Junior Year

1st Semester

Pass media competencies.

Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 467	Applied Music Voice	2
Mus 325	Applied Music Keyboard	1
Mus 321	Concert Chorale	1
Mus 240	Recital Attendance	Cr
Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
[Anth 342 Comp Cultures]		3

21

2nd Semester

Mus 312	History of Music	3
Mus 468	Applied Music Voice	2
Mus 326	Applied Music Keyboard	1
Mus 322	Concert Chorale	1
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
Mus 443	Adv Choral Conducting	2
[PSc 120 Gov't: U.S./Sta/Loc]		3
Psy 305	Developmental Psychology	4
[Hist 320 U.S. History]		3

21

### Senior Year

1st Semester

Apply for student teaching. All courses must be completed except for Professional Semester.

Mus 321	Concert Chorale	1
Mus 432	Music in Public School	2
Mus 467	Applied Music Voice	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Mus 433	Arranging	4
[Phys 100 Fund of Phys Sci]		5
Educ 401	Use of Comp Sitzwr in Clsrn (or computer course approved by music dept.)	2
Educ 422	Tchng Rdng in Sec Sch	2
Psy 310	Education Psychology	2

20

2nd Semester

Mus 335	Tchng Music in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 412	Individual Curriculum Dev (2)	
OR		
Educ 420	Intro to Counseling (3)*	
OR		
Psy 412	Meas & Eval (2)	2-3
Educ 464	Student Teaching	8

16-17

\*Offered at night only, must be taken semester prior to student teaching.  
[Department Recommendations]

## Bachelor of Science in Education

Major Code 0832

### Music Major

Grades Pre K-12 Certification

(Plan B) Single Teaching Field

### Instrumental Major

### Freshman Year

1st Semester

Course

Mus 111	Music Theory	3
Mus	Applied Music Major	2
Mus 113	Class Piano	1
Mus 191	Marching Band (1)	
OR		
Mus 151	Orchestra	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 101 Comp II]	3
Psy 120	College Orientation	1
CORE	[Mus 110 Music Apprec]	3
Psy 100	General Psychology	3
Educ 100	Orientation to Educ I	1

Hours  
18

2nd Semester

Mus 112

Mus 112	Music Theory	3
Mus	Applied Music Major	2
Mus 113	Class Piano	1
Mus 192	Concert Band (1)	
OR		
Mus 152	Orchestra (1)	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Comp II]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[HPER 101 Physical Activity]	1
CORE	[Math 110 Intro to Col Math]	3
CORE	[Art 110 or TH 110]	3

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### Sophomore Year

1st Semester

Take C-Base test.

Mus 113	Class Piano	1
Mus 211	Music Theory	3
Mus	Applied Music Major	2
Mus 191	Marching Band (1)	
OR		
Mus 151	Orchestra (1)	1
Mus 232/234	Brass/Woodwind Tech	2
Mus 240	Recital Attendance	Cr
CORE	[Eng 281 or 282 Lit]	3
Educ 200	Orientation to Educ II	1
Educ 302	Exceptional Child	2
CORE	[Econ 180 Amer Econ Sys]	3
CORE	[Comm 100 Oral Comm]	3

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2nd Semester

Apply for admission to Teacher Education.

Mus 113	Class Piano	1
Mus 182	Conducting Tech	2
Mus 212	Music Theory	3
Mus	Applied Music Major	2
Mus 231/233	String/Percussion Tech	1
Mus 192	Concert Band (1)	
OR		
Mus 152	Orchestra (1)	1
Mus 240	Recital Attendance	Cr
CORE	[Hist 110 U.S. History]	3
CORE	[Bio 101 General Biology]	4
Psy 305	Developmental Psychology	4

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## Junior Year

### 1st Semester

<i>Pass Media Competencies.</i>	
Mus 232/234 Brass/Woodwind Tech	2
Mus 311 History of Music	3
Mus 420 Form & Analysis	3
Mus Applied Music Major	2
Mus 411 Marching Band Methods	2
Mus 391 Marching Band (1)	
OR	
Mus 351 Orchestra (1)	1
Mus 240 Recital Attendance	Cr
Mus 444 Adv Instru Conducting	2
Educ 329 Ped Theo Meth & Prac	4
Educ 321 Microteaching	2
Educ 423 Classroom Management	2

### 2nd Semester

Mus 231/233 String/Percussion Tech	1
Mus 312 History of Music	3
Mus Applied Music Major	2
Mus 392 Concert Band (1)	
OR	
Mus 352 Orchestra (1)	1
Mus 240 Recital Attendance	Cr
Mus 333 Music in Elem Grades	2
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Anth 342 Compar Cultures]	3
Educ 422 Tchng Rdng in Sec Sch	2

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17

## Senior Year

### 1st Semester

*Apply for admission to student teaching. All course work must be completed except Professional Semester courses.*

Mus 391 Marching Band (1)	
OR	
Mus 351 Orchestra (1)	1
Mus 432 Music in Public School	2
Mus Applied Music Major	2
Mus 450 Senior Recital	Cr
Mus 240 Recital Attendance	Cr
Mus 433 Arranging	4
Psy 310 Educational Psychology	2
CORE [Phys 100 Fund Phys Sci]	5
Educ 401 Use of Comp Sftwr in Clsmr (or computer course approved by music dept.)	2
CORE [Hist 320 U.S. History]	3

21

### 2nd Semester

Mus 335 Tching Music in Sec Sch	2
Educ 402 Foundations of Educ	2
Educ 432 Critical Issues in Educ	2
Educ 412 Individual Curriculum Dev (2)	
OR	
Educ 420 Intro to Counseling (3)*	
OR	
Psy 412 Meas & Eval (2)	2-3
Educ 464 Student Teaching	8

16-17

\*Offered at night only, must be taken semester prior to student teaching.

[Department Recommendations]

For additional information contact:

Mr. Pete Havely

Office: Music Building 216

Phone: 625-9318

## Course Descriptions

Mus 102, 302, 202, 402 (S) 1 hr. cr.

### Opera or Musical Theatre Performance

Performance of a role along with active participation in the different areas of staging the musical or opera. Credit is applied after departmental evaluation and approval at the end of the semester. (Students may not receive credit from both the theatre department and music department for the same production.)

Mus 110 (F, S) 3 hrs. cr.

### Music Appreciation

Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

Mus 111 (F) 3 hrs. cr.

### Music Theory

Basic fundamentals of music with initiation of harmonic analysis and partwriting. Basic course for music majors; others by consent of instructor.

Mus 112 (S) 3 hrs. cr.

### Music Theory

Sequential course in written harmony, including inversion, seventh chords and non-harmonic tones. Prerequisite: Mus 111.

Mus 113 (F, S) 1 hr. cr.

### Class Piano

Reading skills, fundamental piano technique, basic musicianship and elementary repertoire. Material studied varies in accordance with educational purpose.

Mus 121, 321, 122, 322 Mus (F, S) 1 hr. cr.

### Concert Chorale

Open to all college students. Preparation and performance of great choral works. Prerequisite: Permission of instructor. Each class may be repeated four times for credit.

Mus 133 (F) 2 hrs. cr.

### Opera

History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on opera history and opera production with the last 10 weeks focusing upon the particular opera selected for production the spring semester of that year.

Mus 141, 341, 142, 342 (F, S) 1 hr. cr.

### Jazz Band

A stage band open to all students who are qualified instrumentalists. The Jazz Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: Permission of instructor. Each class may be repeated four times for credit. Corequisite: Mus 191, 391, 192 or 392.

Mus 151, 351, 152, 352 (F, S)

1 hr. cr.

### Orchestra

Audition is available to all college students who play an orchestral instrument. The orchestra will present public concerts, performing standard and orchestral literature. Prerequisite: Audition. Each class may be repeated four times for credit.

Mus 161, 361, 162, 362 (F, S)

1 hr. cr.

### Southern Exposure

Small select ensemble. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: Audition. Each class may be repeated four times for credit. Corequisite: Mus 121, 122, 321 or 322.

Mus 171, 371, 172, 372 (F, S)

1 hr. cr.

### Brass Choir

Open to all students with band instrument experience. Performance of literature for brass ensemble. Each class may be repeated four times for credit.

Mus 182 (F)

2 hrs. cr.

### Conducting Techniques

Baton technique, factors in interpretation, score reading and rehearsal procedures for instrumental and vocal organizations. Included is experience conducting live rehearsals. Prerequisite: Mus 111.

Mus 191, 391 (F)

1 hr. cr.

### Marching Band

Open to all qualified students with high school band experience. A study and practice of the fundamentals of drill and presentation of musical marching maneuvers. Prerequisite: Permission of instructor. Each class may be repeated four times for credit.

Mus 192, 392 (S)

1 hr. cr.

### Concert Band

Open to all qualified students with band instrument experience. Rehearsal and public performances of composite repertoire. Prerequisite: Permission of instructor. Each class may be repeated four times for credit.

Mus 211 (F)

3 hrs. cr.

### Music Theory

Modulation, diatonic, seventh chords, altered chords, advanced partwriting procedures. Prerequisite: Mus 112.

Mus 212 (S)

3 hrs. cr.

### Music Theory

Secondary dominant chords, augmented triads and sixth chords, advanced modulation, introduction to contemporary techniques. Prerequisite: Mus 211.

Mus 219 (Demand)

2 hrs. cr.

### Vocal Diction

Applied voice students receive instruction in the correct pronunciation of English, Italian, French, German and Ecclesiastical Latin as used in the study of vocal literature.

Mus 231 (S)

1 hr. cr.

### String Techniques

Class instruction in the string instruments, including a study of methods and materials to be used in the teaching of beginning students.

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Mus 232 (F)	2 hrs. cr.	Mus 333 (Demand)	2 hrs. cr.	Mus 499 (Demand)	1-3 hrs. cr.		
<b>Brass Techniques</b>							
Class instruction in the brass instruments, including a study of methods and materials to be used in the teaching of beginning students.							
Mus 233 (S)	1 hr. cr.	Mus 409 (S)	2 hrs. cr.	<b>Independent Study</b>			
<b>Percussion Techniques</b>							
(Not open to percussion majors)							
Class instruction in the percussion instruments, including a study of methods and materials to be used in the teaching of beginning students.							
Mus 234 (F)	2 hrs. cr.	Mus 411 (F)	2 hrs. cr.	<b>Applied Music (Private Lessons)</b>			
<b>Woodwind Techniques</b>							
Class instruction in the woodwind instruments, including a study of methods and materials to be used in the teaching of beginning students.							
Mus 240 (F, S)	0 hrs. cr.	Mus 420 (F)	3 hrs. cr.	Major in: Brass, Keyboard, Percussion, String, Woodwind and Voice. All applied music offerings may be repeated twice for credit.			
<b>Recital Attendance</b>							
Attendance at designated afternoon and evening recitals and concerts is required of all music majors each semester. Corequisite: Music major (major code of 0832, 0866, or 1005.)							
Mus 243 (F)	3 hrs. cr.	Mus 432 (F)	2 hrs. cr.	Mus 115 Applied Music Brass Elective	1 hr. cr.		
<b>Musical Theatre</b>				Mus 125 Applied Music Keyboard Elective	1 hr. cr.		
History, production and performance of musical theatre. Academic concentration on scenes from musicals with emphasis on acting, music, and dance techniques needed for musical productions, and focus upon representative musicals from the past fifty years and more specifically on the particular musical selected for production in the spring semester of that school year. Course also offered under Th 243.				Mus 135 Applied Music Percussion Elective	1 hr. cr.		
Mus 298 (Demand)	1-3 hrs. cr.	Mus 433 (F)	4 hrs. cr.	Mus 145 Applied Music String Elective	1 hr. cr.		
<b>Selected Topics in Music</b>				Mus 155 Applied Music Woodwind Elective	1 hr. cr.		
Study of special topics in music not included in another course. Prerequisite: Permission of instructor.				Mus 165 Applied Music Voice Elective	1 hr. cr.		
Mus 309 (F)	2 hrs. cr.	Mus 443 (S)	2 hrs. cr.	Mus 116 Applied Music Brass Elective	1 hr. cr.		
<b>Choral Techniques</b>				Mus 126 Applied Music Keyboard Elective	1 hr. cr.		
Designed to formulate principles for directing secondary and adult choral ensembles. Covers motivational techniques, including body language, verbal skills, understanding of the vocal mechanism and the function of rhythm in the musical phrase. Explores various organizational methods, rehearsal procedures and teaching materials. Also includes conducting techniques conducive to encouraging proper vocal technique.				Mus 136 Applied Music Percussion Elective	1 hr. cr.		
Mus 311 (F)	3 hrs. cr.	Mus 444 (F)	2 hrs. cr.	Mus 146 Applied Music String Elective	1 hr. cr.		
<b>History of Music</b>				Mus 156 Applied Music Woodwind Elective	1 hr. cr.		
General survey of history of music from Greek period to 18th century. Prerequisite: Mus 211.				Mus 166 Applied Music Voice Elective	1 hr. cr.		
Mus 312 (S)	3 hrs. cr.	Mus 445 (Demand)	0 hrs. cr.	Mus 315 Applied Music Brass Elective	1 hr. cr.		
<b>History of Music</b>				Mus 325 Applied Music Keyboard Elective	1 hr. cr.		
From 18th century to the present. Score reading required. Prerequisite: Mus 211.				Mus 335 Applied Music Percussion Elective	1 hr. cr.		
Mus 332 (F, S)	2 hrs. cr.	Mus 446 (Demand)	1-3 hrs. cr.	Mus 345 Applied Music String Elective	1 hr. cr.		
<b>Music for the Elementary School</b>				Mus 355 Applied Music Woodwind Elective	1 hr. cr.		
Methods of teaching music in the elementary classroom and a study of materials to be used.				Mus 365 Applied Music Voice Elective	1 hr. cr.		
				Mus 316 Applied Music Brass Elective	1 hr. cr.		
				Mus 326 Applied Music Keyboard Elective	1 hr. cr.		
				Mus 336 Applied Music Percussion Elective	1 hr. cr.		
				Mus 346 Applied Music String Elective	1 hr. cr.		
				Mus 356 Applied Music Woodwind Elective	1 hr. cr.		
				Mus 366 Applied Music Voice Elective	1 hr. cr.		
				Mus 117 Applied Music Brass Elective	2 hrs. cr.		
				Mus 127 Applied Music Keyboard Elective	2 hrs. cr.		
				Mus 137 Applied Music Percussion Elec	2 hrs. cr.		
				Mus 147 Applied Music String Elective	2 hrs. cr.		
				Mus 157 Applied Music Woodwind Elective	2 hrs. cr.		
				Mus 167 Applied Music Voice Elective	2 hrs. cr.		
				Mus 118 Applied Music Brass Elective	2 hrs. cr.		
				Mus 128 Applied Music Keyboard Elective	2 hrs. cr.		
				Mus 138 Applied Music Percussion Elec	2 hrs. cr.		
				Mus 148 Applied Music String Elective	2 hrs. cr.		
				Mus 158 Applied Music Woodwind Elect	2 hrs. cr.		
				Mus 168 Applied Music Voice Elective	2 hrs. cr.		
				Mus 317 Applied Music Brass Elective	2 hrs. cr.		
				Mus 327 Applied Music Keyboard Elective	2 hrs. cr.		
				Mus 337 Applied Music Percussion Elec	2 hrs. cr.		
				Mus 347 Applied Music String Elective	2 hrs. cr.		
				Mus 357 Applied Music Woodwind Elec	2 hrs. cr.		
				Mus 367 Applied Music Voice Elective	2 hrs. cr.		
				Mus 318 Applied Music Brass Elective	2 hrs. cr.		
				Mus 328 Applied Music Keyboard Elective	2 hrs. cr.		
				Mus 338 Applied Music Percussion Elec	2 hrs. cr.		
				Mus 348 Applied Music String Elective	2 hrs. cr.		
				Mus 358 Applied Music Woodwind Elective	2 hrs. cr.		
				Mus 368 Applied Music Voice Elective	2 hrs. cr.		
				Mus 217 Applied Music Brass Major	2 hrs. cr.		
				Mus 227 Applied Music Keyboard Major	2 hrs. cr.		
				Mus 237 Applied Music Percussion Major	2 hrs. cr.		
				Mus 247 Applied Music String Major	2 hrs. cr.		
				Mus 257 Applied Music Woodwind Major	2 hrs. cr.		
				Mus 267 Applied Music Voice Major	2 hrs. cr.		
				Mus 218 Applied Music Brass Major	2 hrs. cr.		
				Mus 228 Applied Music Keyboard Major	2 hrs. cr.		
				Mus 238 Applied Music Percussion Major	2 hrs. cr.		
				Mus 248 Applied Music String Major	2 hrs. cr.		
				Mus 258 Applied Music Woodwind Major	2 hrs. cr.		
				Mus 268 Applied Music Voice Major	2 hrs. cr.		
				Mus 417 Applied Music Brass Major	2 hrs. cr.		
				Mus 427 Applied Music Keyboard Major	2 hrs. cr.		
				Mus 437 Applied Music Percussion Major	2 hrs. cr.		
				Mus 447 Applied Music String Major	2 hrs. cr.		
				Mus 457 Applied Music Woodwind Major	2 hrs. cr.		
				Mus 467 Applied Music Voice Major	2 hrs. cr.		
				Mus 418 Applied Music Brass Major	2 hrs. cr.		
				Mus 428 Applied Music Keyboard Major	2 hrs. cr.		

Mus 438	Applied Music Percussion Major	2 hrs. cr.
Mus 448	Applied Music String Major	2 hrs. cr.
Mus 458	Applied Music Woodwind Major	2 hrs. cr.
Mus 468	Applied Music Voice Major	2 hrs. cr.
	Elective in Jazz Improvisation	
Mus 114		1 hr. cr.
Mus 214		2 hrs. cr.
	Corequisite: Music major (major code of 0832, 0866, or 1005.)	

PSc 310	Law, Society & Judicial Process	3
PSc 431	Constitutional Law I	3
PSc 432	Constitutional Law II	3
PLS 491	Internship**	3
PLS 498	Senior Seminar**	3
PLS 499	Independent Study**	3
	OR One of the following:	
Comm 310	Communications Law	3
LE 250	Criminal Law	3
PSc 322	International Law	3
GB 411	Labor Law	3

For additional information contact:  
Dr. Michael Yates  
Office: Webster Hall 234  
Phone: 625-9333

## Course Descriptions

# Paralegal Studies

Webster Hall 245, 625-9564

**Faculty** Tate - Head, Yates

The paralegal program is designed for the student seeking a career as a legal assistant working under the direction and supervision of an attorney in private practice, government service or legal aid. However, the knowledge and skills acquired in the paralegal program are beneficial to students in the areas of law enforcement, prelaw, business law and political science. Students who choose to learn more about the legal system and how to develop their own skills in legal research for personal enrichment are also encouraged to enroll.

No major or degree is now offered in paralegal studies, but a student enrolled in the paralegal program may obtain an associate of arts degree with an emphasis in paralegal studies. Paralegal studies may also be used as a minor for a bachelor of arts or bachelor of science degree. Students wishing to take only classes in paralegal studies may receive recognition for successfully completing 21 hours of course work. The required courses and suggested electives are listed under the requirements for the minor. Students must have an adviser in paralegal studies.

## Minor in Paralegal Studies

	Semester Hours	
PLS 201	Intro to Legal Assistance	3
PLS 302	Legal Research	3
<b>Electives from the following:</b>	<b>15</b>	
PLS 298	Topics in Paralegal Studies	3
PLS 311	Property*	3
PLS 312	Civil Litigation*	3
PLS 320	Family Law*	3
PLS 401	Wills, Trusts and Probate*	3
GB 301	Legal Environment of Business I	3
GB 302	Legal Environment of Business II	3

## Suggested Order of Study

### Associate of Arts

Major Code 7999

### Emphasis in Paralegal Studies

(This is a general associate of arts degree, NOT a paralegal degree)

#### Freshman Year

##### 1st Semester

Course	Hours
PLS 201	Intro to Legal Assistance
PLS 302	Legal Research
CORE	[Eng 101 Comp I]
CORE	[PSc 120 Gov't: U.S./Sta/Loc]
Psy 120	College Orientation
CORE	[HPER 103 Lifetm Wellness]
CORE	[HPER 101 Physical Activity]
	16

##### 2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[Hist 110 or 120 U.S. Hist]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Bio 101 General Biology]	4
PLS	Upper Division Elective	3
	16	

#### Sophomore Year

##### 1st Semester

CORE	[Econ 180, Soc 110 or Psy 100]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Humanities and Fine Arts]	3
PLS	Upper Division Electives	6
	17	

##### 2nd Semester

CORE	[Comm 100 Oral Comm]	3
CORE	[Literature]	3
CORE	[Humanities and Fine Arts]	3
PLS	Internship	3
PLS	Upper Division Elective	3
	15	

[Department Recommendations]

Suggested electives are Civil Litigation; Family Law; Property; Wills, Trusts and Probate.

21

\*Highly Recommended

\*\*See Prerequisites

PLS 201 (F) 3 hrs. cr.

### Introduction to Legal Assistance

American legal system with emphasis on the roles, skills and tasks of the paralegal. Topics include professional ethics, client interviewing and legal analysis.

PLS 298 (Demand)

3 hrs. cr.

### Topics in Paralegal Studies

Special topics of current interest to the student. Subjects are changed each semester. Students are encouraged to submit areas of interest to the social science department.

GB 301 (F, S)

3 hrs. cr.

### Legal Environment of Business I

(See GB 301).

GB 302 (F, S)

3 hrs. cr.

### Legal Environment of Business II

(See GB 302).

PLS 302 (F, Odd)

3 hrs. cr.

### Legal Research

Research involved in case preparation; use of the law library and the various digests, encyclopedias, reporters, etc., contained therein.

PLS 310 (Demand)

3 hrs. cr.

### Law, Society and the Judicial Process

(Writing Intensive)

American legal system with special attention to the organization, methods, processes and behaviors of the judiciary.

PLS 311 (S, Odd)

3 hrs. cr.

### Property

Laws relating to real and personal property with emphasis on the procedures and forms used in real estate transactions and conveyances such as; deeds and contracts.

PLS 312 (S, Even)

3 hrs. cr.

### Civil Litigation

Process of civil litigation from filing to appeal including rules for instituting and conducting lawsuits before federal and state courts, rules of procedure, and the preparation of pertinent legal forms.

PLS 320 (S, Even)

3 hrs. cr.

### Family Law

Laws regulating marriage, adoption, divorce, division of property, child custody and support, adult abuse and termination of parental rights and the preparation of pertinent legal forms.

## **94 / Philosophy, Physics & Pre-Engineering**

PLS 401 (F, Even) <b>Wills, Trusts and Probate</b> Law of wills, trusts and intestate succession; includes analysis of the administration and probate of estates and the preparation of pertinent legal forms.	3 hrs. cr.	admittance to law schools, medical schools, graduate schools of management, and theological seminaries.	Phil 312 <b>Biomedical Ethics</b> A comprehensive investigation of ethical problems relating to health care and the practice of medicine, including study of such issues as euthanasia and the right to die, abortion, confidentiality, patient rights and professional responsibilities, allocation of medical resources, and medical experimentation.	3 hrs. cr.
PSc 431 (F, Even) <b>Constitutional Law I</b> (See PSc 431).	3 hrs. cr.	The department offers a minor in philosophy, which consists of 18 credit hours. Students are required to complete a course in Critical Thinking (Phil 140), a course in Ethics (Phil 212, PSc 411 or a suitable Selected Topics Course) and two courses in the History of Philosophy (Phil 301 and 302). Two courses are elective, at least one of which must be at the 300 level or above.	Phil 320 <b>Comparative Religion</b> A philosophical and historical survey, emphasizing the world's major living religions. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)	3 hrs. cr.
PSc 432 (S, Odd) <b>Constitutional Law II</b> (See PSc 432).	3 hrs. cr.	For additional information contact: Dr. Stephen Spector Office: Hearnes Hall 314 Phone: 625-9535	Phil 420 <b>Philosophy of Science</b> Investigation of the nature and scope of scientific inquiry. Topics include the logic of scientific reasoning, the nature of scientific theories, the conceptual presuppositions of science, and the relation between the natural and social sciences. Prerequisites: 3 hrs. of philosophy or permission of instructor.	3 hrs. cr.
PLS 491 (Demand) <b>Internship</b> An applied internship of 135 hrs. done under the supervision of a practicing professional who is directly engaged in a day-to-day application of the law (i.e. judges, attorneys, government officials) as approved by department head.	3 hrs. cr.		Phil 498 <b>Seminar in Philosophy</b> Comprehensive analysis of selected topics in philosophy. For upper division students.	3 hrs. cr.
PLS 498 (Demand) <b>Senior Seminar</b> Comprehensive analysis and review of selected legal topics to be announced when course is offered. Prerequisite: 9 hrs. of paralegal studies or consent of instructor.	3 hrs. cr.		Phil 499 <b>Independent Study</b> Individually directed study in selected areas for advanced students. Prerequisite: GPA of 3.0 in philosophy. Enrollment must be approved by adviser, department head and school dean.	1-3 hrs. cr.
PLS 499 <b>Independent Study</b> Study and research by the student under the direction and supervision of instructor/adviser with prior approval by department head and school dean. Prerequisites: Advanced standing in the major field and a minimum GPA of 3.0	1-2-3 hrs. cr.			

### **Course Descriptions**

#### **Phil 140 Critical Thinking**

Introduction to logic, with special emphasis on common errors and fallacies in reasoning.

#### **Phil 201 Introduction to Philosophy**

Comparative survey of major types of philosophy and of representative problems in philosophy. Satisfies 3 hrs. of Core Curriculum requirements in Area 2C on page ???.

#### **Phil 212 Ethics**

Exploration of the problems of value and personal moral standards, comparative survey of major ethical systems and evaluation of the chief ethical struggles in contemporary society.

#### **Phil 298 Topics in Philosophy**

Studies in a variety of philosophical subjects. Topic open.

#### **Phil 301 Ancient Philosophy**

Historical study of ancient philosophy, with special emphasis on the writings of Plato and Aristotle. Prerequisites: 3 hrs. of philosophy or permission of instructor.

#### **Phil 302 Modern Philosophy**

A survey of the major schools of western philosophy from 1550 to 1850. Prerequisites: 3 hrs. of philosophy or permission of instructor.

### **Physics and Pre-Engineering**

*Reynolds Hall 210, 625-9376*

**Faculty** Baiamonte - Head, Knapp, Phillips, Sloan, Strobel

Physics graduates obtain a strong diversified background in science and mathematics which will qualify them to enter various areas of employment in industry, government or secondary education, or for entrance into graduate programs in physics and engineering. Students who plan to do graduate work in engineering should, with the help of a faculty adviser, select their free electives in the area they plan to enter.

The physics area of the physical science department participates in cooperative two-year pre-engineering programs which allow students to complete the first two years of an engineering degree at Missouri Southern

## **Philosophy**

*Hearnes Hall 312, 625-9659*

**Faculty** Spector - Head, Brown, Harder

Philosophy deals with basic questions from all areas of life and thought—science, religion, art, morality and politics—and helps students refine their views on these subjects. Most importantly, philosophy teaches students how to think: how to analyze problems into their essential elements, how to decide which proposed solution to a problem is supported by the best evidence, how to separate relevant from irrelevant points and how to state issues clearly and precisely. While some philosophy students go to graduate school and become professional philosophers, most go on to careers in such areas as law, medicine, theology, business, government and public service. Philosophy students are highly successful in gaining

and then transfer to an engineering school to complete the remaining two years of the degree. (See page 172).

## Bachelor of Science with a Major in Physics

		Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>	<b>43</b>
<b>Physics Requirements</b>		<b>36</b>
Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Phys 301	Modern Physics**	4
Phys 322	Classical Mechanics**	3
Phys 341	Thermal Physics**	4
Phys 372	Electronic Circuits**	4
Phys 381	Intermediate Physics Laboratory**	3
Phys 401	Electricity & Magnetism**	4
Phys 452	Quantum Mechanics**	
OR		
Phys 480	Selected Topics in Physics & Engineering	3
Phys 498	Seminar	1
<b>Supporting Requirements</b>		<b>26</b>
Chem 101	General Chemistry I**	5
Math 150	Calculus with Analytical Geometry I**	5
Math 250	Calculus with Analytical Geometry II**	5
Math 260	Calculus with Analytical Geometry III**	5
Math 322	Differential Equations**	3
Comp 120	Fortran	3
<b>Electives***</b>		<b>23</b>
		<b>128****</b>

\*Required physics, chemistry and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Suggested Electives (Chem 102, Comp 200, Math 351, Math 431 and Phys 480)

\*\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science in Education with a Major in Physics

Grades 9-12 Certification

Unified Science with a Physics Endorsement

		Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>	<b>36</b>
<b>Physics Requirements</b>		<b>25</b>
Phys 260	General Physics II** (5)	2
Phys 301	Modern Physics**	4
Phys 312	Statics**	3
Phys 322	Classical Mechanics**	3
Phys 341	Thermal Physics**	4
Phys 372	Electronic Circuits**	4

Phys 381	Intermediate Physics Laboratory**	3	2nd Semester
Phys 498	Seminar	2	Phys 250 Gen Physics I (Math 150)
<b>Supporting Requirements</b>		<b>60</b>	Math 250 Calculus II (Math 150)
Phil 420	Philosophy of Science	3	Elective [Chem 102 General Chem II]
Bio 101	General Biology	4	CORE [Eng 102 Comp II]
Bio 112	Botanical Survey**	4	
Bio 122	Zoological Survey**	4	
Chem 101	General Chemistry I**	5	
Chem 102	General Chemistry II**	5	
Phys 250	General Physics I**	5	
Phys 260	General Physics II** (5)	3	
Geol 110	Intro to Geology	5	
Geol 180	Intro to Meteorology	3	
Math 150	Calculus with Analytical Geometry I**	5	
Math 250	Calculus with Analytical Geometry II**	5	
Math 260	Calculus with Analytical Geometry III**	5	
Comp 115	Computing I or higher (in place of Educ 401)	3	
<b>Select one:</b>			
Bio 312	Environmental Biology	4	
Bio 402	General Ecology	4	
Bio 481	Aquatic Ecology	4	
Geol 300	Environmental Geology	4	
<b>Education Certification Requirements (p. 124-136)</b>		<b>39</b>	
		<b>160***</b>	

\*Required physics, chemistry, mathematics, biology and psychology courses satisfy major requirements and 15 hours of the Core Curriculum.

\*\*See Prerequisites

## Minor in Physics

		Semester Hours
Phys 250	General Physics I	5
Phys 260	General Physics II	5
Physics	Upper Division Electives (excluding Phys 300)	8
		<b>18</b>

## Suggested Order of Study

### Bachelor of Science

Major Code 1902

### Physics Major

#### Freshman Year

Course		Hours
Math 150	Calculus I	5
Chem 101	Gen Chem I (Alg & Trig)	5
CORE	[Eng 101 Comp I]	3
Phys 140	Essential Skills in Physics	3
Psy 120	College Orientation	1
		<b>17</b>

#### Senior Year

1st Semester		
Phys 401	Electricity & Magnetism (4)	
OR		
Phys 381	Intermediate Phys Lab (3)	4-3
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
Phys or Math Elective		3
Electives		3
		<b>16-15</b>

#### 2nd Semester

Phys 452	Quantum Mechanics	
OR		
Phys 480	Selective Topics	3
Phys 498	Seminar	1
CORE	[International Cultural Stu]	3
Electives		9
		<b>16</b>

(Prerequisites)

[Department Recommendations]

# 96 / Physics & Pre-Engineering

Students should enroll in Comp 120 Computing II before the junior year.

For additional information contact:  
Dr. Russell Phillips  
Office: Reynolds Hall 208  
Phone: (417) 625-9719

## Course Descriptions

Phys 100 (F, S, SS) 5 hrs. cr.

### Fundamentals of Physical Science

Basic concepts in the fields of physics, chemistry, geology and astronomy will be presented as time permits. Emphasis on a detailed picture of energy and its uses, including an understanding of both mechanical and thermal efficiencies and the limitations that these efficiencies place on our world. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Lecture and demonstration periods. Prerequisite: Math ACT of 16 or higher or Math 20 with a grade of "C" or better.

Phys 101 (F, S) 5 hrs. cr.

### Physical Science for Elementary Teachers

Basic concepts in the field of physical science. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Four lecture and demonstration periods and one three-hour lab per week. Prerequisite: Math 111.

Phys 102 (F, S) 1 hr. cr.

### Physical Science Laboratory

Experiments related to topics studied in Physics 100 will be conducted. One three-hour lab per week. Prerequisite or corequisite: Physics 100.

Phys 120 (Summer) 4 hrs. cr.

### Physics for Teachers 7-9

Essential subjects of physics at a level accessible with only a college algebra background. Primarily for teachers who need a physics course to satisfy the state requirement in physics for certification in science 7-9. Three hrs. lecture, one 2-hr. lab recitation class per week. Prerequisite: Math 130 or equivalent.

Phys 140 (F, S) 3 hrs. cr.

### Essential Skills for Physics

Physics preparatory class covering vector techniques, geometrical and trigonometrical applications in physics, analysis of one-dimensional motion and setting up word problems. Three hrs. lecture per week. Prerequisite: Math 140.

Phys 151 (F, S, SS) 5 hrs. cr.

### Elementary College Physics I

Mechanics, rotational dynamics, properties of matter, heat, wave motion and sound. Four hrs. lecture, one 2-hr. lab per week. Prerequisite: Math 140.

Phys 152 (S) 4 hrs. cr.

### Elementary College Physics II

Electricity, circuits, magnetism, optics, relativity, radioactivity, and nuclear reactions. Three hours of lecture and one 2-hr. lab per week. Prerequisite: Phys 151.

Phys 250 (F, S) 5 hrs. cr.

### General Physics I

Introductory study (with emphasis on vector methods) of the mechanics of particles and rigid bodies and a study of heat and temperature. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Math 150 and Phys 140 or permission of instructor.

Phys 260 (F, S) 5 hrs. cr.

### General Physics II

Electricity, magnetism, waves and geometrical and physical optics. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Phys 250 and Math 250.

Phys 298 (F, S) 1-3 hrs. cr.

### Selected Topics in Physical Science

Special topics in physical science not normally offered in other courses. Prerequisite or corequisite: Math 130 or equivalent.

Phys 300 (Demand) 3 hrs. cr.

### Astronomy

The solar system. Kepler's laws, celestial coordinates and observing. Hertzsprung-Russell diagrams, stellar evolution, pulsars, black holes, nebulae, galaxies and cosmology. Three lectures per week. (Does not count toward a physics major.) Prerequisite: Phys 100 or equivalent and one year high school algebra.

Phys 301 (F) 4 hrs. cr.

### Modern Physics

Special theory of relativity, wave-particle experiments, introductory quantum mechanics and nuclear physics. Prerequisite: Phys 260. Corequisite: Math 260.

Phys 312 (SS) 3 hrs. cr.

### Statics

Principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Three lectures per week. Prerequisite: Phys 250.

Phys 322 (S, Even) 3 hrs. cr.

### Classical Mechanics

Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of force, accelerated reference frames, energy, gravitation and rigid bodies. Three hrs. lecture per week. Prerequisite: Phys 250, Corequisite: Math 322 or permission of instructor.

Phys 341 (S, Odd) 4 hrs. cr.

### Thermal Physics

Temperature, transfer of heat, laws of thermodynamics, entropy, enthalpy, reversibility and irreversibility, thermal properties of materials, change of phase, use of thermo tables and introduction to heat transfer. Four hrs. lecture per week. Prerequisite: Phys 250; corequisite: Math 260.

Phys 372 (S) 4 hrs. cr.

### Electronic Circuits

Ohm's law, Kirchoff's laws, Nodal analysis, mesh analysis, Thevenin's and Norton's theorems, superposition, inductors and capacitors, source-free RL and RC circuits, RLC circuits. Complex variables and their application to steady-state AC circuits. Two 3-hr. lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys 260, Corequisite: Math 260.

Phys 381 (Demand) 3 hrs. cr.

### Intermediate Physics Laboratory

(Writing Intensive)

Experiments in classical and modern physics, including wave phenomena, heat transfer, electrical measurements, optics, photoelectric effect and radioactivity. Two 3-hr. lab per week. Prerequisite: Phys 301 or permission of instructor.

Phys 401 (F, Odd) 4 hrs. cr.

### Electricity and Magnetism

Electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties, induced electromotive force, Maxwell's equations and electromagnetic waves. Four hrs. lecture per week. Prerequisites: Math 260 and Phys 260.

Phys 452 (Demand) 3 hrs. cr.

### Quantum Mechanics

Time independent Schrödinger equation, eigenfunctions, expectation values, differential operators, perturbation theory, multielectron atoms and applications to solid state physics. Three hrs. lecture per week. Prerequisite: Phys 301 and Math 322.

Phys 480 (Demand) 3 hrs. cr.

### Selected Topics in Physics and Engineering

One or more of the following topics for further study: solid state physics, optics, nuclear physics, advanced mechanics, quantum mechanics, circuit analysis, thermodynamics, fluid mechanics, heat transfer and mechanics of materials. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Phys 498 (F, S) 1-3 hrs. cr.

### Seminar

Topics of current interest by the student from the areas of physics and engineering. Secondary education majors will be required to present several lecture-demonstration programs illustrating the basic concepts in physics at the secondary level. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Phys 499 (F, S) 1-3 hrs. cr.

### Independent Study

Course structured by the adviser with approval of the department head. Prerequisite: Advanced standing with a GPA of 3.0 in the major field. Registration must be approved by the adviser, department head and school dean.

# Political Science

Webster Hall, 625-9564

**Faculty** Tate - Head, St. Clair, Simpson, Yates, Youst

The bachelor of arts degree with a major in political science is appropriate for those students seeking to do graduate work in political science, enter professional schools of law or public administration, join the public service or work in community service as well as general career options. A bachelor of science in education degree with a major in social studies - political science emphasis - certifies a student to teach on the secondary school level. A minor in political science is available for students majoring in other disciplines. In addition, see page 102 for a social science minor or the social studies in secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by PSc 120.

PSc 120 is a prerequisite for all other political science courses.

## Bachelor of Arts with a Major in Political Science

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>48</b>
<b>Computer Literacy Requirement - determined by social science department</b>	<b>2-3</b>
<b>Foreign Language (four courses in one language)</b>	<b>12</b>
<b>Political Science Requirements</b>	<b>36</b>
PSc 120 Gov't: U.S./State/Local	3
PSc 201 Intro to Pol Sci Methods	3
PSc 498 Seminar in Political Science	
OR	
PSc 497 Capital Internship	3
Select one course from each of the following four areas:	
U.S. Politics (3)	12
PSc 301 Political Parties & Elections	
PSc 302 Public Opinion & Pressure Groups	
PSc 311 American Presidency	
PSc 312 Legislative Process	
State and Local Government (3)	
PSc 320 State Government	
PSc 341 Municipal Government	
PSc 342 Public Policy	
PSc 421 Public Administration	

International Politics (3)	
PSc 321 International Relations	
PSc 331 Comparative	
PSc 332 Government: Europe	
Comparative	
PSc 411 Government: Latin America	
PSc 412 Political Theory	
Contemporary Political Thought	
Law (3)	
PSc 310 Law, Society and the Judicial Process	
PSc 322 International Law	
PSc 431 Constitutional Law I	
PSc 432 Constitutional Law II	
Political Science Electives**	15
<b>Electives</b>	<b>29-30</b>
	<b>128***</b>

\*Political Science 120 satisfies major requirements and 3 hours of Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science in Education with a Major in Social Studies

Political Science Emphasis Grades 9-12 Certification Plan B	Single Teaching Field	Semester Hours
<b>Core Requirements (p. 41) 51*</b>		<b>33</b>
<b>Political Science Requirements</b>		<b>15</b>
PSc 120 Gov't: U.S./State/Local	3	
PSc Upper Division Electives	12	
<b>Supporting Requirements</b>		<b>36</b>
Hist 110 U.S. History 1492-1877	3	
Hist 120 U.S. History 1877-Present		
OR		
Hist 320 U.S. History 1877-Present	3	
Hist 130 Western Civilization to 1660	3	
Hist 140 Western Civilization Since 1660	3	
Hist Upper Division U.S.** (not 320)	6	
Hist Upper Division Asian**	3	
Soc 110 Intro to Sociology	3	
Soc Upper Division Elective**	3	
Geog 211 Regions and Nations	3	
Geog Upper Division Elective	3	
Econ 180 Amer Econ System	3	
<b>Electives</b>		<b>3-4</b>
<b>Education Certification Requirements (p. 124-136)</b>		<b>40-41</b>
		<b>128</b>

\*Required political science, history, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.

\*\*See Prerequisites

## Minor in Political Science

	Semester Hours
PSc 120 Gov't: U.S./State/Local	3
PSc Electives*	18
	<b>21</b>

\*Must be chosen with approval of a political science adviser.

## Suggested Order of Study

### Bachelor of Arts

Major Code 2207

### Political Science Major

#### Freshman Year

1st Semester Course	Hours
Foreign Language	3
CORE [Eng 101 Comp I]	3
CORE [Hist 110 U.S. 1492-1877]	3
CORE [Math 110 Intro to Col Math]	3
CORE [Comm 100 Oral Comm]	3
Psy 120 College Orientation	1
	<b>16</b>

#### 2nd Semester

Foreign Language	3
CORE [Eng 102 Comp II]	3
CORE [Hist 120 U.S. 1877-Present]	
OR	
CORE [Hist 320 U.S. 1877-Present]	3
CORE [Bio 101 General Biology]	4
CORE [Humanities and Fine Arts]	3
	<b>16</b>

#### Sophomore Year

1st Semester	
PSc 120 Gov't: U.S./State/Local	3
CORE [English Lit]	3
Foreign Language	
CORE [Phys 100 Fund of Phys Sci]	5
CORE [HPER 103 Lifetm Wellness]	2
CORE [HPER 101 Physical Activity]	1
	<b>17</b>

#### 2nd Semester

CORE	[Econ 201 Prin of Econ-Macro]
PSc [Upper Division Elective approved by adviser]	3
Foreign Language	
CORE [Soc 110 Intro to Sociology]	3
Electives	
	<b>17</b>

#### Junior Year

1st Semester	
PSc [Upper Division]	6
CORE [International Cultural Stu]	3
[Computer Literacy course selected with adviser's approval]	
CORE [Humanities and Fine Arts]	3
	<b>15</b>

# 98 / Political Science

2nd Semester			PSc 310 (Demand)	3 hrs. cr.	PSc 412 (S, Even)	3 hrs. cr.
PSc [Upper Division]	9		<b>Law, Society and the Judicial Process</b> <i>(Writing Intensive)</i>		<b>Contemporary Political Thought</b>	
Electives	8		American legal system viewed from a social and political as well as legal perspective. Focus on the structure and organization of courts, the processing of civil and criminal cases and the behavior of judges, lawyers and other participants in the judicial process.		Twentieth century political ideas.	
<b>Senior Year</b>						
1st Semester			PSc 311 (Summer)	3 hrs. cr.	PSc 421 (F, Odd)	3 hrs. cr.
PSc [Upper Division Electives]	9		<b>American Presidency</b>		<b>Public Administration</b>	
Electives [Upper Division]	6		Politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government.		Administrative aspects of government; surveys the major subfields of public administration, i.e., politics and administration, organizational theory, organizational behavior, management, decision making, personnel, public budgeting and finance, policy analysis and program evaluation and administrative law. Prerequisite: Junior standing or consent of instructor.	
2nd Semester			PSc 312 (S, Even)	3 hrs. cr.	PSc 431 (F, Even)	3 hrs. cr.
PSc [Upper Division Elective]	6		<b>Legislative Process</b>		<b>Constitutional Law I</b>	
Electives [Upper Division]	10		Problems of representation, organization of the legislature, participation and proposals for improved organization. Emphasis on the United States Congress.		Political and legal aspects of Supreme Court decision making, the nature and scope of judicial review, the constitutional relationships between levels and branches of government and the First Amendment rights of freedom of expression.	
	16		PSc 320 (S, Odd)	3 hrs. cr.	PSc 432 (S, Odd)	3 hrs. cr.
			<b>State Government</b>		<b>Constitutional Law II</b>	
			General structure, theories, operation and problems of state government with special emphasis on the government of Missouri.		Legal issues concerning the Bill of Rights and the First Amendment areas of free exercise and establishment of religion, the right to privacy, the 14th amendment due process, and equal protection clauses.	
			PSc 321 (F, Even)	3 hrs. cr.	PSc 496 (Demand)	3-8 hrs. cr.
			<b>International Relations</b>		<b>Internship in Political Science</b>	
			Present-day relations and problems among the states of the world and the major factors which underlie and influence these relations.		Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. No more than 3 hrs. may be counted toward a major or minor.	
			PSc 322 (S, Odd)	3 hrs. cr.	PSc 497 (Demand)	8 hrs. cr.
			<b>International Law</b>		<b>Capital Internship</b>	
			Rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedures employed in protecting their rights and performing their duties.		Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. The student will live and work in the capital from the opening of the legislative session until its conclusion or the last day of MSSC's spring semester.	
			PSc 331 (F, Odd)	3 hrs. cr.	PSc 498 (Demand)	3 hrs. cr.
			<b>Comparative Government: Europe</b>		<b>Seminar in Political Science</b> ( <i>Writing Intensive</i> )	
			An analysis of the governments of selected European countries emphasizing the development of their political systems both in theory and practice. Comparisons with American governmental institutions.		Specialized knowledge and/or current research in the discipline. Topics will vary by situation and instructor. Students will prepare and critique papers based on original research. Prerequisite: 9 hrs. of upper division political science.	
			PSc 332 (S, Even)	3 hrs. cr.	PSc 499 (F, S)	1-2-3-4 hrs. cr.
			<b>Comparative Government: Latin America</b>		<b>Independent Study</b>	
			Governments and cultures of selected Latin American countries emphasizing the development of their political systems in both theory and practice.		For students who wish to do an indepth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The student will select an adviser from the political science faculty who will structure the independent study in consultation with the student and with the approval of the department head. Prerequisite: Junior or senior status and an overall cumulative GPA of 3.0 or better. Enrollment must be approved by department head and school dean.	
			PSc 341 (S, Even)	3 hrs. cr.		
			<b>Municipal Government</b>			
			Structure, legal status, functions and organization of city, town and village government in the United States.			
			PSc 342 (F, Even)	3 hrs. cr.		
			<b>Public Policy</b>			
			An introductory survey of the formulation, execution and evaluation of public policy in the United States. Prerequisite: PSc 120.			
			PSc 411 (F, Odd)	3 hrs. cr.		
			<b>Political Theory Selected</b>			
			Western political philosophies from early recorded history through the present time.			

\*Also meets a Core Curriculum requirement.  
[Department Recommendations]

For additional information contact:  
Dr. Donald R. Youst  
Office: Webster Hall 232  
Phone: 625-9795

## Course Descriptions

PSc 120 (F, S) 3 hrs. cr.

### Government: U.S., State & Local

Designed to give students an understanding of their governments, enabling them to keep up with political developments with the goal of becoming informed citizens needed to sustain democracy. A Core Curriculum requirement for all bachelor's degrees. Successful completion of this course fulfills the Missouri state requirements in constitutional study.

PSc 298 (Demand) 3 hrs. cr.

### Topics in Political Science

Special political science topics of current interest to the student or faculty member who offers the class. Subjects and instructors change each semester. Students are encouraged to suggest possible course topics to the political science faculty.

PSc 300 3 hrs. cr.

### Introduction to Political Science Methods

The nature, possibilities and limitations of political inquiry emphasizing research methods and tools. A valuable course for students who wish to engage in nonlibrary types of research projects.

PSc 301 (F, Even) 3 hrs. cr.

### Political Parties and Elections

Analysis of the origins, structure and functions of political parties; the dynamics of the two-party system; the role of third parties and the election process.

PSc 302 (F, Odd) 3 hrs. cr.

### Public Opinion and Pressure Groups

Origins, impact and measurement of public opinion. Scope, nature and powers of interest groups in American society with special attention to their role in formulating public opinion and public policy.

## Preprofessional

Police Academy 101, 625-9328

### Associate of Arts Degree

This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours. Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

## Prepharmacy

Major Code 7007

<b>Core Requirements* (p. 41)</b>		<b>14</b>
Eng 101 and 102 English Comp**		6
Chem 101 and 102 General Chemistry**		10
Math 150 Calculus**		5
Social Sciences/Humanities**		14
Bio 306 Human Physiology and Anatomy		5
Electives		10
		<b>64</b>

\*28 hours of Core requirements are met by UMKC School of Pharmacy minimum requirements.

\*\*UMKC School of Pharmacy minimum requirements.

## Sociology

Webster Hall 245, 625-9564

**Faculty** Tate - Head, Gubera, Miller, Simpkins

A bachelor's degree with a major in sociology prepares the student for a variety of occupations and graduate programs. Selecting from three bachelor's degree programs including a bachelor of science in educa-

tion, the student may choose to pursue many careers, for example, those in human and social services, public safety occupations or teaching. Advanced graduate or professional school training could also be a choice for the student who successfully completes one of the bachelor degree programs. A sociology minor with an emphasis in social work is offered with classes focusing on human and social services. In addition, a sociology minor provides students majoring in other areas with special interpersonal, group and organizational knowledge and skills.

See page 102 for a minor in social sciences or the social studies in secondary education minor.

Sociology 110 is a prerequisite to many upper division courses in sociology.

Certain sociology courses may be used to satisfy Core Curriculum requirements. Sociology 110 is an elective for the requirement in Area 3C, Natural and Behavioral Sciences; either Anth 155 or 342 meet the requirement in Area 5, International Cultural Studies.

### Bachelor of Arts with a Major in Sociology

<b>Core Requirements (p. 41) 51*</b>		<b>45</b>
Computer Literacy Requirement - determined by social sciences department		2-3
Foreign Language (four courses in one language)		12
<b>Sociology Requirements</b>		<b>30</b>
Soc 110 Intro to Sociology		3
Soc 210 Social Problems**		3
Soc 311 Social Stratification**		3
Anth 342 Comparative Cultures**		3
Soc 431 Sociological Research Methods**		3
Soc 482 Sociological Theory**		3
Soc Electives (3 hrs. must be upper division)		12
Psy 311 App Stat**		
OR		
Math 310 Elementary Statistics**		3
<b>Supporting Area (approved by sociology adviser)***</b>		<b>15</b>
<b>Electives</b>		<b>20-21</b>
		<b>128****</b>

\*Required sociology course Soc 110 and Anth 342 satisfies six hours of Core Curriculum requirements.

\*\*See Prerequisites

\*\*\*A minor is highly recommended.

\*\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

### Bachelor of Science with a Major in Sociology

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>45</b>
<b>Sociology Requirements</b>	<b>36</b>
Soc 110 Intro to Sociology	3
Anth 155 Physical Anthropology & Archaeology	3
Soc 311 Social Stratification**	3
Soc 362 Deviant Behavior**	3
Soc 431 Social Research Methods**	3
Soc 482 Sociological Theory**	3
Soc Electives (emphasis in upper division)	18
<b>Supporting Requirements</b>	<b>12</b>
Comp 105 Intro to Micro Use	3
Soc 300 Computer Applications for the Soc Sci	3
Psy 320 App Stat for Behavioral & Natural Sciences**	
OR	
Math 310 Elementary Statistics**	3
Geog Elective	3
<b>Electives</b>	<b>35</b>
	<b>128***</b>

\*Required Sociology course 110 and Anth 342 satisfies six hours of Core Curriculum requirements.

\*\*See Prerequisites

\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

### Bachelor of Science in Education with a Major in Social Studies

**Sociology Emphasis  
Grades 9-12 Certification**

Plan B	Single Teaching Field
	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>33</b>
<b>Sociology Requirements</b>	<b>21</b>
Soc 110 Intro to Sociology	3
Soc 221 Marriage and Family	3
Soc 210 Social Problems**	3
Anth 342 Comparative Cultures**	3
Soc Electives (6 hours upper division)**	9
<b>Supporting Requirements</b>	<b>36</b>
Hist 110 U.S. History 1492-1877	3
Hist 120 U.S. History 1877-Present	3
OR	
Hist 320 U.S. History 1877-Present	3
Hist 130 Western Civilization To 1660	3
Hist 140 Western Civilization From 1660	3
Hist Upper Division U.S. Electives** (not 320)	6
Hist Upper Division Asian Elective**	3
Geog 211 Regions and Nations	3

# 100 / Sociology & Anthropology

Geog	Upper Division Elective	3
PSc 120	Gov't; U.S./State/Local	3
PSc	Upper Division Elective**	3
Econ 180	Amer Econ System	3
<b>Education Certification Requirements</b> (p. 124-136)		<b>40-41</b>
		<b>130-131</b>

\*Required courses in history, political science, sociology and economics satisfy major requirements and 18 hours of Core Curriculum.

\*\*See Prerequisites

## Minor in Sociology

		Semester Hours
Soc 110	Intro to Sociology	3
Soc	Electives*	6
Soc	Electives - Upper Division*	12
		<b>21</b>

\*Select with prior approval of a sociology adviser. See prerequisites where applicable.

## Minor in Sociology with Emphasis in Social Work

		Semester Hours
Soc 110	Intro to Sociology	3
Soc 221	Marriage and Family	3
Soc 210	Social Problems*	3
Soc 306	Sociology of Aging*	3
Soc 331	Intro to Social Work I*	3
Soc 332	Soc Work Practice**	3
Soc 496	Internship**	3
		<b>21</b>

\*See Prerequisites

\*\*Admission dependent on departmental committee approval.

## Suggested Order of Study

### Bachelor of Arts

Major Code 2208

### Sociology Major

#### Freshman Year

Course		Hours
Soc 110	Intro to Sociology*	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Humanities and Fine Arts]	3
Foreign Language		3
Psy 120	College Orientation	1
		<b>16</b>

2nd Semester		
Foreign Language		3
CORE [Eng 102 Comp II]		3
CORE [PSc 120 Gov't: U.S./Sta/Loc]		3
CORE [Econ 180 Amer Econ Sys]		3
CORE [Bio 101 General Biology]		4
		<b>16</b>

### Bachelor of Science

Major Code 2220

### Sociology Major

#### Freshman Year

1st Semester		
Course		Hours
Soc 110	Intro to Sociology*	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. 1492-1877]	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective		3
Psy 120	College Orientation	1
		<b>16</b>

#### 2nd Semester

Anth 155	Phys Anthrop & Arch	3
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Phys 100 Fund of Phys Sci]	5
		<b>17</b>

#### Sophomore Year

1st Semester		
Soc	Elective with approval of adviser	3
CORE	[Math 131 Finite Math]	3
CORE	[English Lit]	3
Geog	Social Stratification**	3
CORE	[Bio 101 General Biology]	4
		<b>16</b>

#### 2nd Semester

Soc	Elective	3
CORE	[Humanities and Fine Arts]	3
Elective		3
CORE	[HPER 103 Lifetm Wellness]	2
Elective	[A minor is suggested]	6
		<b>17</b>

#### Junior Year

1st Semester		
Soc 311	Social Stratification***	3
CORE	[Anth 342 Compar Cultures]	3
Comp 105	Computing I	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 U.S. 1877-Present]	3
OR		
CORE	[Hist 320 U.S. 1877-Present]	3
CORE	[HPER 101 Physical Activity]	1
		<b>16</b>

#### 2nd Semester

Soc 362	Deviant Behavior***	3
Soc	Elective	3
Electives	[A minor is suggested]	7
Psy 320	App Stat or Math 310***	3
		<b>16</b>

#### Senior Year

1st Semester		
Soc 431	Soc Research Methods**	3
Soc	Electives	6
Elective	[A minor is suggested]	6
		<b>15</b>

#### 2nd Semester

Soc 482	Sociological Theory***	3
Soc 300	Computer App in Soc Sci***	3
Electives	[A minor is suggested]	9
		<b>15</b>

2nd Semester		
Soc 482	Sociological Theory**	3
Supporting Area	[A minor is suggested]	6
Electives		7
		<b>16</b>

\*Also meets a Core Curriculum requirement  
\*\*Prerequisites  
[Department Recommendations]

The student is to select a supporting area in consultation with a sociology adviser.

\*Also meets a Core Curriculum requirement  
 \*\*Select from Geography 211, 311 or 322.  
 \*\*\*Prerequisites  
 [Department Recommendations]  
 The student is to select a minor in consultation with a sociology adviser.

For additional information contact:  
 Dr. Conrad Gubera  
 Office: Webster Hall 228  
 Phone: 625-9653

## Course Descriptions

### Anthropology

Anth 155 (F)	3 hrs. cr.
<b>Physical Anthropology and Archaeology</b>	
Physical and cultural anthropology with particular emphasis on the linkage of human prehistory to the development of culture and the human capacity for society. Can be used to satisfy the Core Curriculum requirement in Area 5.	
Anth 342 (S)	3 hrs. cr.
<b>Comparative Cultures</b>	
A comparative study of human society and culture, focusing on theories of culture and cultural institutions as they relate to contemporary pre-industrial peoples. An ethnographic examination of representative groups is provided for purposes of cross-cultural comparison. Can be used to satisfy the Core Curriculum requirement in Area 5. Prerequisite: Soc 110 or Anth 155 or consent of instructor.	
Anth 345 (Demand)	3 hrs. cr.
<b>North American Archaeology</b>	
The study of the Physical and cultural anthropology of pre-historic North American with special emphasis on the cultural lifeways of pre-historic humans using archaeological evidence and interpretation.	

### Sociology

Soc 110 (F, S)	3 hrs. cr.
<b>Introduction to Sociology</b>	
A systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena. Satisfies a Core Curriculum requirement.	
Soc 210 (F, S)	3 hrs. cr.
<b>Contemporary Social Problems</b>	
A survey of contemporary social problems including racism, sexism, crime and deviance, drug use, and mental disorders. The course encourages a critical examination of society and focuses on the structural sources of social problems such as class, race, and gender. The role of the U. S. in global social problems is also explored. Prerequisite: Soc 110.	

Soc 221 (F)	3 hrs. cr.	Soc 312 (S)	3 hrs. cr.
<b>Marriage and Family</b>		<b>Juvenile Delinquency</b>	
Paired relationships, marriage as the genesis of family life, elements in the preparation for marriage and parenthood and the development of family relationships throughout the life cycle.		Analysis of environment and social background for juvenile delinquency behaviors. Investigation of behavioral content and scope of official delinquency. Review of the influences of family, school, peer groups and gangs, and the juvenile justice and corrections system. Prerequisite: Soc 110.	
Soc 291 (F)	3 hrs. cr.	Soc 322 (S)	3 hrs. cr.
<b>The Sociology of Death and Dying</b>		<b>Sociology of Work and Leisure</b>	
A review of the international religious, secular and scientific expressions regarding death. Historical and current issues pertaining to death are explored and a critical perspective is taken on all positions. The course incorporates both philosophical and pragmatic overviews of death and dying.		Analysis of work, occupations, career mobility and job satisfaction as important elements in society. Examination of leisure activities which alter with technological advances and the changing economic base. Prerequisite: Soc 110.	
Soc 298 (Demand)	3 hrs. cr.	Soc 331 (F)	3 hrs. cr.
<b>Topics in Sociology</b>		<b>Introduction to Social Work</b>	
Special sociology topics of current interest. Subjects and instructors may vary each semester. Students are encouraged to submit areas of interest to the social science department.		Philosophical and historical development of social work as a professional career. Focuses on role of the social worker within the various practice settings. Will entail field trips and guest speakers.	
Soc 300 (S)	3 hrs. cr.	Soc 332 (S)	3 hrs. cr.
<b>Computer Applications in the Social Sciences</b>		<b>Social Work Practice</b>	
An analysis of computers and their applications in the social sciences. Focus on preexisting software designed for use by social science disciplines. Emphasis on data entry, analysis and interpretation of printouts. Prerequisite: Comp 105 and Psy 320. Advised to be taken with Soc 432.		Emphasizes the development of skills needed to initiate, enhance, or restore relationships between clients and society. Focuses on techniques and case management, analysis of cases and practical experience in a social agency or community program providing human services. Admission dependent on departmental committee approval. Prerequisite: Soc 331 and junior standing.	
Soc 301 (F)	3 hrs. cr.	Soc 351 (F)	3 hrs. cr.
<b>Sociology of Religion</b>		<b>Criminology</b>	
Religion as a major social institution. Compares religions regarding behavioral content. Major attention is given to the nature of religion, organized religion and how religion is integrated into society. Limited attention given to the behavioral expectations associated with the major religions of the world. Prerequisite: Soc 110.		Social and legal concept of crime. Review of measurements and data of crime(s) and the theories related to the cause of criminal behaviors. Discussion of profiles of different adult offenders and their behavioral characteristics relative to the major felonies committed in contemporary society. Prerequisite: Soc 110.	
Soc 304 (S)	3 hrs. cr.	Soc 354 (S)	3 hrs. cr.
<b>The Arab World</b>		<b>Sociology of Health and Illness</b>	
A social science view of the Arab world which identifies peoples, countries, geographical settings, cultural differences, cultural change, political and religious affiliations, and the emergence of contemporary issues. Special emphasis will be placed upon the Israel - Palestine - Jordan problem area.		Social causes and consequences of health and illness. The expanding role of health-related organizations, the training of health care personnel, and the contemporary consumer's movement, are also explored. A cross-cultural comparison of health care delivery systems and a review of various social problems associated with health care in the U.S. is provided. Prerequisite: Soc 110.	
Soc 306 (S)	3 hrs. cr.	Soc 361 (F)	3 hrs. cr.
<b>Sociology of Aging</b>		<b>The Study of Populations</b>	
A review of aging studies with particular emphasis on needs, problems, areas of concern, aging theories, social services for the elderly and accumulated data from gerontological research. Such topics as life changes, retirement and alternative life styles among the elderly will be analyzed. Prerequisite: Soc 110.		Changes in human population through an analysis of birth rates, death rates and migrations. Social demographic analysis of census and independent research data. Various population theories are applied to national and world situations. Concepts of over-population, minority groups and aging are analyzed. Prerequisite: Soc 110.	
Soc 311 (F)	3 hrs. cr.		
<b>Social Stratification</b>	(Writing Intensive)		
Examination of differences in power, privilege and prestige. Analysis of the nature and input of social inequality on people's lives within the United States and an overview of the complex array of social structures which comprise international systems of inequality. Theoretical explanation for the variations in social class usually incorporated in course requirements. Prerequisite: Soc 110.			

102 / Sociology, Social Science

Soc 362 (S) <b>Deviant Behavior</b>	3 hrs. cr.	Soc 482 (S) <b>Sociological Theory</b>	3 hrs. cr.
Theoretical explanations of socially disapproved behavior from the sociological perspective and the application of these concepts to specific forms of deviance. Analysis of the social nature of conforming behavior as a way of increasing understanding of deviant behavior. Prerequisite: Soc 110 and Soc 210 (or) consent of instructor.		Classical and contemporary theory placed in historical perspective. An analysis and interpretation of social groups, social organizations and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hrs. of sociology.	
Soc 382 (S) <b>Minority Groups and Race Relations</b>	3 hrs. cr.	Soc 496 (Demand) <b>Internship in Sociology</b>	1-8 hrs. cr.
A study of racial and cultural groups particularly focusing on the United States with some analysis of international ethnic relations. Analyzes several general theories and explanations for minority-dominant relations. Includes a study of legislation affecting minorities in the U.S. Prerequisite: Soc 110 or consent of instructor.		Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. No more than three hours may be counted toward a major or minor. Prerequisites: 15 hrs. of sociology, junior standing or above and approval of a departmental committee.	
Soc 391 (F) <b>Penology and Corrections</b>	3 hrs. cr.	Soc 498 (Demand) <b>Seminar in Sociology</b>	3 hrs. cr.
Philosophy, history and operations of penitentiary systems with special attention given to changes in adult institutions. Explanation of the problems associated with prison populations and types of facilities along with sentences, therapeutic models and community treatment. Prerequisite: Soc 110.		For upper division sociology majors. Topics covered and methods used will place emphasis on student-instructor interest, desire to pursue indepth research and ability to assimilate topics. It will include areas not already treated in other sociology courses. Prerequisite: 15 hrs. of sociology or consent of instructor.	
Soc 402 (S) <b>The Community - Rural and Urban (Writing Intensive)</b>	3 hrs. cr.	Soc 499 (Demand) <b>Independent Study</b>	1-2-3 hrs. cr.
Social processes of human groups who share common unities of territory and cultural bonds. Major attention on gemeinschaft-gesellschaft theories as they pertain to national, rural, urban, ethnic and subcultural communities, and how these intertwine in contemporary societies. Prerequisite: Soc 110.		Structured by the adviser with the approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Enrollment in the course must be approved by department head and dean.	
Soc 406 <b>Sociology of Child Abuse</b>	3 hrs. cr.		
An analysis of child abuse and neglect as it has developed within the United States. The dynamics of the family environment as well as the victim-perpetrator relationship will be examined. Emphasis will be placed on societal reaction to both abuser and the abused in addition to the behavior itself. Potential treatment alternatives will be analyzed. Prerequisite: 12 hrs. of sociology.			
Soc 431 (F) <b>Sociological Research Methods (Writing Intensive)</b>	3 hrs. cr.		
Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasizes survey designs employed in sociological inquiry. Prerequisite: 12 hrs. of sociology.			
Soc 445 (Demand) <b>Mass Society and Social Movements</b>	3 hrs. cr.		
Critical analysis of the structural elements of contemporary mass society and their effect on social groups and individuals. The function of social movements as forms of resistance and change in modern society. Prerequisite: 9 hrs. of sociology or consent of instructor.			

vices. Internships are especially helpful in establishing career objectives and obtaining practical knowledge. Social sciences students may apply for internships at the George Washington Carver National Monument, the Dorothea B. Hoover Historical Museum, as a social work minor, a paralegal studies minor, a political science minor, or a sociology major. Also, Missouri State Internships are available.

To satisfy the college-wide computer literacy requirements, the social science faculty suggests students complete Comp 105 Introduction to Microcomputer Use. Other computer literacy requirements apply to the bachelor of science with a major in sociology and to the bachelor of science in education with a major in social studies.

Minors are offered in each of the disciplines within the social sciences except anthropology. Two general social science minors are also available: a social science minor and a social studies for secondary education minor which qualifies students to teach in junior high and middle schools.

## **Minor in Social Science**

		Semester Hours
Hist 110	U.S. History	3
Hist 120	U.S. History	
OR		
Hist 320	U.S. History	3
PSc 120	Gov't: U.S./State/Local	3
Geog	Elective	3
Soc or Anth	Elective (100 - 200 level)	3
Select three (3) social science		
courses at the 300 - 400 level		
(other than Hist 320)		9

**Nine hours of these requirements apply to the Core Curriculum.**

## Social Science

Webster Hall 245, 625-9565

**Faculty** Tate - Head, Gubera, Holman,  
Krueger, Laas, Markman, Miller, St. Clair,  
Sale, Schmidt, Simpkins, Simpson,  
Tannenbaum, Teverow, Yates, Youst

Within the social sciences are the disciplines of anthropology, geography, history, paralegal studies, political science and sociology.

Each discipline focuses on the study of some aspect or aspects of human societies: their history, government, social organization, laws, physical environment and/or cultural heritage. Students who major or minor in the social sciences prepare for a variety of graduate programs or careers, for example, in teaching, government, law, historic preservation, business, health and human ser-

## Minor in Social Studies for Secondary Education Certification for Grades 9-12

This minor meets social studies requirements for certifying secondary education majors to teach grades 9 through 12. Students electing this minor must have a social sciences faculty adviser.

### Social Studies

		Semester Hours
Hist 110	U.S. History	3
Hist 120	U.S. History	3
OR		
Hist 320	U.S. History	3
Elective in American History		3
PSc 120	Gov't: U.S./State/Local	3
Hist 130	Western Civilization	3
Hist 140	Western Civilization	3
Econ 180	Amer Econ System	3
Geog 211	Regions and Nations	3
		<b>24</b>

### Programs and Degree Offerings

See Geography (p. 77); History, (p. 78); Paralegal Studies, (p. 93); Political Science, (p. 97); and Sociology, (p. 99) for specific degree requirements, minors, A.A. paralegal program and suggested orders of study.

Business  
Computer Technology  
Secondary Education  
Film Cartoon Director  
Ministry  
Magician

### Factors Unique to Theatre Department:

- hands-on experience for students in acting, house and stage management, directing and technical design-execution;
- a children's theatre play program performing for over 12,000 people annually from the four state area;
- play participation open to all Southern students, faculty and staff;
- theatre faculty members who have professional experience in their teaching specialties;
- a modern, well-equipped mainstage theatre as well as flexible space for studio productions;
- two theatre organizations: College Players and Alpha Psi Omega, a national dramatic honorary fraternity.

The theatre department offers a bachelor of arts degree with a major in theatre and a bachelor of science in education degree with a major in theatre/speech (plan B). A minor in theatre is also available. During their senior year, all majors must take a final exam covering all areas of the theatre and present a creative exiting project in addition to participating in the college general assessment program.

To satisfy the college-wide computer literacy requirement, theatre majors earning a B.A. should complete Comp 105 or above. Those earning a B.S.E. must take Educ 401.

It is recommended that students pursuing a degree in theatre meet with their faculty adviser at least twice each semester, once in addition to planning their next semester's schedule. More detailed information is available in the theatre office, 243 Taylor Performing Arts Center.

Core Curriculum requirement in Area 2 Humanities and Fine Arts is fulfilled by Th 110 (Theatre Appreciation).

## Bachelor of Arts with a Major in Theatre

		Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51*</b>	<b>42</b>
<b>Computer Literacy Requirement</b>		
<b>Comp 105 or above</b>		<b>3</b>
<b>Foreign Language (four courses in one language)</b>		<b>12</b>
<b>Theatre Requirements</b>		<b>46</b>
Th 121,122,221,222 Theatre Laboratory (Select two)		4
Th 142 Theatre Technology		3
Th 231 Speech for Stage		3
Th 232 Costume Technology		3
Th 233 Stage Makeup		3
Th 234 Introduction to Theatrical Design		3
Th 241 Acting I		3
Th 331 History of the Theatre		3
Th 332 History of the Theatre		3
Th 341 Acting II**		3
Th 351 Directing I**		3
Th 362 Stage Costume Design**		3
Th 320 Lighting Design**		
OR		
Th 361 History of Costume**		
OR		
Th 372 Directing II**		3
Th 422 Acting III**		
OR		
Th 431 Creative Dramatics		3
Th 441 Stage Design**		3
<b>Supporting Requirements</b>		<b>9</b>
Art 110 Art Appreciation		3
Mus 110 Music Appreciation		3
Hist 130 OR 140 Western Civ.		3
<b>Electives</b>		<b>16</b>
		<b>128***</b>

\*In addition to meeting major requirements, Art 110 and Music 110 satisfy the Core Curriculum requirements in Areas 2A and 2C and Hist 130 or 140 satisfies the requirements in Area 5A.

\*\*See Prerequisites

\*\*\*Three Writing Intensive (WI) courses in addition to English composition must be included. Two of these must be upper division courses and one of the two must be in theatre.

A total of 40 upper division hours (300-400) are required, 24 specified in theatre and 16 electives in these areas. One upper division course must be selected from Area 4 or 5 of the Core Curriculum.

## Theatre

Taylor Auditorium 243, 625-9393

**Faculty** Fields - Head, Claussen, D. Hunt, Jaros

Specialized theatre training provides students with a broad academic background that can lead to a number of careers. Graduates of the Missouri Southern theatre department are currently employed in fields such as:

- Theatre Performance/Design
- Television Production/Performance
- Commercials
- Public Relations
- Stage Management
- Graduate Study
- Executive Leadership
- Recreational Directorship
- Technical Theatre
- Personnel Management
- Government Service
- Fashion Industry
- TV Anchor

# 104 / Theatre

## Bachelor of Science in Education with a Major in Theatre/Speech Communications

Grades 9-12 Certification

### Plan B Single Teaching Field

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	<b>48</b>
<b>Computer Literacy Requirements - Educ 401</b>	<b>2</b>
<b>Theatre Requirements</b>	<b>20</b>

Th 121 or 122 or 221 or 222 Theatre Laboratory	2
Th 142 Theatre Tech	3
Th 212 Oral Interpretation	3
Th 234 Introduction to Theatrical Design	3
Th 241 Acting I	3
Th 331 History of Theatre (WI)	3
OR	
Th 332 History of Theatre	3
Th 351 Directing I**	3

#### Communication Requirements

Comm 101 Intro to Human Comm	3
Comm 215 Interpersonal Comm**	3
Comm 304 Small Group Comm	3
Comm 315 Argumentation and Debate**	3

#### Speech Communication Electives\*\*\*

#### Education Certification Requirements (p. 124-136)

<b>Electives</b>	<b>3</b>
	<b>131-132</b>

\*Required course in psychology counts 3 hours toward Core Curriculum requirements, Area 3C.

\*\*See Prerequisites

\*\*\*Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre.

Th 320 Stage Lighting**	3
Th 331 Theatre History (WI)	3
Th 332 Theatre History	3
Th 333 Eastern Theatre Tradition	3
Th 341 Acting II**	3
Th 351 Directing I**	3
Th 361 History of Costume**	3
Th 362 Stage Costume Design**	3
Th 372 Directing II**	3
Th 422 Acting III**	3
Th 435 Theatre Internship	1-3
Th 441 Stage Design**	3

<b>Junior Year</b>		
1st Semester		
Th 212 Oral Interpretation	3	
Th 441 Stage Design*	3	
Th Electives	4	
CORE [Bio 101 General Biology]	4	
Foreign Language	3	
		<b>17</b>

2nd Semester		
Th 362 Stage Costume Design*	3	
CORE [Hist 120 U.S. 1877-Pres]	3	
CORE [Phys 100 Physical Science]	5	
Foreign Language	3	
CORE [Econ 180 Amer Econ Sys]	3	
		<b>17</b>

\*All courses must be selected with adviser approval. Six hours must be upper division.  
\*\*See Prerequisites

### Suggested Order of Study

#### Bachelor of Arts

Major Code 1007

#### Theatre Major

#### Freshman Year

1st Semester	Course	Hours
	Th 121 Theatre Lab	2
	Th 231 Speech For Stage	3
	Th 233 Stage Makeup	3
	CORE [Eng 101 Comp I]	3
	CORE [HPER 103 Lifetm Wellness]	2
	CORE [Comm 100 Oral Comm]	3
	Psy 120 College Orientation	1
		<b>17</b>

#### 2nd Semester

Th 142 Theatre Tech	3
Th 241 Acting I	3
CORE [Hist 140 West Civ]	3
CORE [Eng 102 Comp II]	3
CORE [Math 110 or above]	3

Hours  
**15**

2nd Semester		
Th 332 History of Theatre	3	
Th 372 Directing II#	3	
Foreign Language	3	
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3	
Elective [Eng or Th]	3	
		<b>15</b>

[Department Recommendations]

\*See prerequisites

#May be substituted for approved class in tech or acting area

#### Supporting Electives:

Accounting, Art, Business, Communications, English, Music, Computer Science

For additional information contact:

Dr. Jay Fields

Office: Taylor Performing Arts Center 243

Phone: 625-9393

## Minor in Theatre

	Semester Hours
Th 121, 122, 221, 222 Theatre Laboratory (Select two)	4
Th 110 Theatre Appreciation	3
Choose a total of 11 hours from the following list of classes:	11*
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 233 Stage Makeup	3
Th 234 Introduction to Theatrical Design	3
Th 231 Speech for Stage	3
Th 251 Audition Techniques for the Actor	1
Th 232 Costume Technology	3
Th 311 Stage Management**	3
Th 241 Acting I	3
Th 243 Musical Theatre Explorations in Theatre (when offered)	3

#### Sophomore Year

1st Semester	Course	Hours
	Th 341 Acting II* or Creative Dramatics	3
	Th 221 Theatre Lab or above Computer Literacy	2
	Comp 105 Requirement	3
	CORE [Area 2-A Elective]	3
	CORE [English Literature Choice]	3
	CORE [Hist 110 U.S. 1492-1877]	3
	CORE [HPER 101 Physical Activity]	1
		<b>18</b>

#### 2nd Semester

Th 422 Acting III#	
OR	
Th 431 Creative Dramatics	3
Th 232 Costume Tech	3
Th 234 Intro to Theatrical Design	3
Art Elective (support req)	3
CORE [Area 2-C Elective]	3
CORE [Psy 100 or Soc 110]	3

Hours  
**18**

#### Bachelor of Science in Education

Major Code 0844

#### Speech and Theatre

Grades 9-12 Certification

#### Theatre Emphasis

### Plan B Single Teaching Field

#### Freshman Year

1st Semester	Courses	Hours
	Educ 100 Orientation to Education I	1
	Psy 100 General Psychology	3
	Th 121 Theatre Lab	2
	CORE [Eng 101 Comp I]	3
	Psy 120 College Orientation	1
	CORE [Comm 100 Oral Comm]	3
	CORE [HPER 101 Physical Activity]	1
	Elective	3
		<b>17</b>

2nd Semester		
Th 142	Theatre Tech	3
CORE	[Area 2-A Elective]	3
CORE	[Hist 110 U.S.1492-1877]	3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Math 110 or above]	3
		17

## Sophomore Year

### 1st Semester

Take C-Base test.

Educ 200	Orientation to Education II	1
Comm 101	Intro to Human Comm	3
CORE	[Hist 120 U.S. 1877-Pres]	3
CORE	[Area 2-C Elective]	3
CORE	[Econ 180 Amer Econ Sys]	3
Th 212	Oral Interpretation	3
		16

### 2nd Semester

Apply for admission to teacher education.

Educ/Psy 302	The Exceptional Child	2
Educ 401	Computer Software	2
Comm 215	Interpersonal Comm	3
CORE	[PSYC 120 Gov't: U.S./Sta/Loc]	3
Th 234	Intro to Theatrical Design	3
Th 241	Acting I	3
Psy 301	Adolescent Psychology	3
		19

## Junior Year

Pass media competencies.

### 1st Semester

Psy 310	Educational Psychology	2
Educ 329	Ped Theo, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Comm 304	Small Group Comm	3
CORE	[Area 5-A Elective]	3
		16

Note: See Educ 420 below\*\*

### 2nd Semester

Educ 422	Tchng Rdng in the Sec Sch	2
Comm	Electives*	4
CORE	[Phys 100 Physical Science]	5
CORE	[Area 2-B Elective]	3
Educ 420	Intro to Counseling**	3
		17

## Senior Year

### 1st Semester

Apply for student teaching. All course work must be completed except for Professional Semester courses.

Th 331	History of Theatre	3
Th 351	Directing I*	3
Comm 315	Argumentation & Debate	3
CORE	[Bio 101 General Biology]	4
Comm	Electives*	3
		16

### 2nd Semester

Educ 344	Tchng Spe & Th in Sec Sch	2
Educ 402	Foundations in Educ	2
Educ 432	Critical Issues	2
Educ 412	Indiv Curr Development (2)	
OR		
Psy 412	Meas & Eval (2)	2
Educ 462	Stu Tchng in Sec Sch	8
		16

[Department Recommendations]

\*See prerequisites

\*\*Offered at night only. Must be taken the semester prior to student teaching. Can substitute Educ 412 or Psy 412 for Educ 420.

For additional information contact:  
Dr. Jay E. Fields  
Office: Taylor Performing Arts Center 243  
Phone: 625-9393

Th 233 (F, Odd)

3 hrs. cr.

### Stage Makeup

Examination of the usages of stage makeup techniques in design and application. Detailed categories of professional makeup materials, usage techniques, sources and costs of material, and demonstrations of various methods of design and application. Each unit of lecture and demonstration will be accompanied by student individual and group study with projects presented in class for critical review. Students must provide individual makeup supplies.

Th 234 (S, Odd)

3 hrs. cr.

### Introduction to Theatrical Design

Theoretical information which is common to all theatrical design courses. Emphasis is on developing creativity, script analysis, techniques of scenography, and collaboration, as well as the application of basic elements and principles of design in relation to the theatre.

Th 241 (S, Even)

3 hrs. cr.

### Acting I

Development of individual's ability to express thought and emotion through effective use of the voice and body. Character analysis and creation revealed in exercises and scene work.

Th 242 (Demand)

1 hr. cr.

### Theatre Movement I

Historical development and implementation of theatrical movement. Exercises and assignments focus on the enhancement of nonverbal character interpretation through individual study and in-class application of movement, gestures and postures, including an assimilation of cultural influences, pantomime, masque and improvisation. Two 1 hr. labs per week.

Th 243 (F, Odd)

3 hrs. cr.

### Musical Theatre

History, production and performance of musical theatre. Academic concentration on scenes from musicals with emphasis on acting, music, and dance techniques needed for musical productions, and focus upon representative musicals from the past fifty years and more specifically on the particular musical selected for production the spring semester of that school year. Course also offered under Mus 243.

Th 251 (S, Odd)

1 hr. cr.

### Audition Techniques For The Actor

Techniques of auditioning and interviewing in the theatre: selecting audition pieces, rehearsing and performing auditions. Instruction in preparing resumes and photographs for professions.

Th 298 (Demand)

3 hrs. cr.

### Exploration in Theatre

Concentrated study on a variety of selected theatre topics. Each offering on a different subject. May be repeated, but same topic only once.

Th 311 (F, Even)

3 hrs. cr.

### Stage Management

Fundamentals of stage management. Organization of call board, rehearsals and performances. Communication procedures between actors, director and designers. Calling the show. Prerequisite: Th 142.

Th 212 (F, Odd)

3 hrs. cr.

### Oral Interpretation

Principles and techniques for the public presentation of oral reading. Selection, analysis and preparation of different types of literature with emphasis on platform presentation of prose, poetry, drama and Readers Theatre.

Th 231 (F, Odd)

3 hrs. cr.

### Speech for Stage

Exercises and drills to improve projection, quality, flexibility and effectiveness of the speaking voice leading to good usage in Standard American speech, based on the International Phonetic Alphabet.

Th 232 (S, Odd)

3 hrs. cr.

### Costume Technology

Basic techniques for construction of stage costumes from a designer's sketch. Areas covered are: fabrics, pattern development, cutting, sewing, dyeing and crafts. No previous skills required. Two hours lecture, 2-hrs. lab per week.

# 106 / Theatre

Th 320 (Demand) <b>Stage Lighting</b> Lighting design approached artistically. The use of lighting for atmosphere, mood and emphasis. Lighting as applied to art, television, theatre and motion pictures. Prerequisites: Th 142 & 234.	3 hrs. cr.	Th 361 (F, Odd) <b>History of Costume</b> Survey of the garments and fabrics worn in Western cultures from Ancient Greece through the 19th Century. Emphasis is on the social and economic reasons which caused styles to change. (Recommended as prerequisite for Stage Costume Design.)	3 hrs. cr.	Th 441 (F, Odd) <b>Stage Design</b> Scene design approached artistically. Focus on nonverbal communication between directors, designers, technicians and audience members. Prerequisites Th 142 and Th 234.	3 hrs. cr.
Th 331 (F, Even) <b>History of the Theatre</b> ( <i>Writing Intensive</i> ) Theatre from primitive time through the Elizabethan period. Theatre and stage architecture, scene design, acting styles, theatre management and the culture surrounding the theatrical event. Analysis of their relationship to dramatic literature.	3 hrs. cr.	Th 362 (S, Even) <b>Stage Costume Design</b> Theory and practical aspects of costume design. Emphasis on non-verbal communication of theme, character and historical period through rendered costume designs. Recommended prerequisite is History of Costume. Prerequisite: Th 234.	3 hrs. cr.	Th 450 (F, S) <b>Advanced Lab Practicum</b> Advanced practical implementation of techniques learned at beginning and intermediate levels of theatre production in the areas of directing and design. Play production for public performance.	1-3 hrs. cr.
Th 332 (S, Odd) <b>History of the Theatre</b> Plays, playwrights and dramatic criticism from the Elizabethan and Jacobean era to contemporary theatre and the evolution of the physical theatre, staging and production practices.	3 hrs. cr.	Th 372 (S, Odd) <b>Directing II</b> Study of the skills and role of a director, casting, production administration and director-actor relationship. Experience and group evaluation in directing one-act plays before departmental or public audience. Prerequisite: Th 351.	3 hrs. cr.	Th 455 (Demand) <b>Theatre Internships</b> Internship in theatre provides selected students on-the-job training and experience. The student is supervised and evaluated by a committee of faculty and by the supervisor at the facility where the student works. May be taken twice.	1-3 hrs. cr.
Th 333 (F, Odd) <b>Eastern Theatre Tradition</b> The study of Eastern thought and culture in the discipline of theatre. All areas of design as well as acting and movement will be discussed.	3 hrs. cr.	Th 422 (S, Odd) <b>Acting III</b> Lecture and laboratory study of physical manners and speech in relationship to various periods of theatre presentation. Prerequisite: Th 341.	3 hrs. cr.	Th 498 (Demand) <b>Theatre Studies</b> Seminar in theatre for advanced students. Topic open. Approval of department head. Prerequisite: Advanced standing in major field with a GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.	3 hrs. cr.
Th 341 (F, Even) <b>Acting II</b> The dynamics of analysis, rehearsal and performance of scenes from contemporary and classic plays. Emphasis on the actor's relationship to the play and to other actors. Prerequisite: Th 241.	3 hrs. cr.	Th 431 (F, Odd) <b>Creative Dramatics</b> Methods and techniques of teaching dramatic improvisations for young people through the exploration of various art forms appropriate for dramatic presentation with an emphasis on storytelling.	3 hrs. cr.	Th 499 (F, S) <b>Independent Study in Theatre</b> Structured by the adviser with approval of department head. Prerequisite: Advanced standing in major field with GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.	1-3 hrs. cr.

# *School of Business Administration*



**Accounting**  
**Business Education**  
**Economics & Finance**  
**Entrepreneurship**  
**General Business**  
**Management**  
**Marketing**  
**Management Technology**

# School of Business Administration

## School Dean

James M. Gray  
Matthews Hall 302, 625-9319

## Degrees and Majors

### Bachelor of Science in Business Administration

Accounting  
Economics and Finance  
General Business  
Management  
Management Technology  
Marketing

### Bachelor of Science in Education

Business Education as a single teaching field  
Business Education as one of two teaching fields

### Bachelor of Science

Management Technology

### Associate of Science

Accounting  
General Business

### Concentration

Entrepreneurship

## Role

The aim of all activity in the School of Business Administration is to assist students in the development of those intellectual, personal and professional attributes which will prepare them to exercise responsibility in the complex business environment of the future. The faculty of the School of Business Administration recognizes that the pace of change in our society will quickly render vocationally oriented information and training obsolete and that the routine details and techniques of the world of work must be acquired through actual experience. The role of the School of Business Administration, therefore, is not to teach skill specific techniques or to offer training for the first job, but to provide the educational opportunity to allow students to develop familiarity with analysis, communications, leadership and interpersonal relations within the context of professional education for business administration.

## Objectives

The objectives of the School of Business Administration are:

1. to maintain a relevant curriculum which will provide the necessary managerial and administrative education for the School of Business Administration graduates;

2. to prepare the School of Business Administration graduates for leadership roles by stimulating rigorous, imaginative, analytical and probing attitudes so that the graduates can express themselves competently and apply problem-solving techniques;
3. to provide a faculty committed to teaching excellence, community service and research;
4. to maintain facilities and equipment necessary to foster high quality education in the School of Business Administration;
5. to interact with the business community to identify and serve their educational needs and to provide opportunity for professional growth for our students and faculty.

## Student Organizations

**The Accounting Club** is open to accounting students seeking information regarding the profession and association with practicing accountants. Members may attend monthly technical meetings and social functions. Members are also encouraged to become active in one or more of the area's professional accounting organizations.

**Omicron Delta Epsilon** is the honorary economics fraternity open to juniors with a 3.0 overall grade point average and at least 12 hours in economics, with a 3.0 in the economics courses.

**Phi Beta Lambda** is based on a set of goals which includes the development of competent and aggressive business leadership, creation of more interest and understanding of American business enterprise and participation in worthy undertakings for the improvement of business and citizenship. PBL is open to all business and computer science students and serves as a vehicle for professionals.

**Pi Omega Pi** is an honorary business education society open to students upon completion of at least three semesters of college courses including at least 15 hours in business and education subjects and the achievement of an average grade of "B" or higher in all courses in business and education.

**Students in Free Enterprise (SIFE)** is a non-profit corporation organized to promote the free enterprise system. The group participates in national competitions, finishing as high as second on two different occasions.

**Financial Management Association** is open to all economics and finance majors and has a National Honor Society designation for those economics and finance majors who

have a cumulative GPA of 3.25 and at least six hours in finance.

**Society for Advancement of Management** is a professional organization whose mission is to foster the interaction of students, faculty, and practicing managers in order to communicate the practice of professional management. The organization is open to all business majors, particularly management and marketing students, and offers its members a personal introduction to practicing managers in the local community.

**The Society of Human Resource Management** is based on a set of goals which includes familiarizing students with human resource administration, industrial psychology and labor relations. It is also designed to keep students up to date on new developments and to develop a nucleus of truly professional human resource for the future. The group is co-sponsored by the School of Business Administration and department of psychology and networks with professionals on a monthly basis.

## Small Business Development Center

The School of Business Administration, in conjunction with the Small Business Administration, has formed a Small Business Development Center which encompasses the following areas:

## The Total Quality Management Resource Center

The Total Quality Management Resource Center assists area organizations in their quest for continuous improvements of products, processes and services to enhance quality while reducing cost. This objective is met through assessment activities, research, educational programs, consulting, and serving as a clearing house for materials such as books, literature, tapes and equipment.

## The Southern Business and Economic Review

*The Southern Business and Economic Review* is published quarterly by the Bureau of Business and Economic Research within the School of Business Administration. Each issue contains local economic indicators and articles of interest to local business people. The Bureau also maintains a data bank of economic statistics which is available to local business people.

## **Small Business Institute**

The Small Business Institute allows students to consult with small businesses that request assistance. This provides valuable experience for our senior students. They are able to apply some of the theory they have learned to "real life" situations. The Small Business Administration funds the program and there is no charge to the businesses.

## **Business and Economic Lecture Series**

The School of Business Administration sponsors an annual lecture series. Speakers of interest to both students and local business people appear each semester. Normally they speak both during the day and the evening. J. Peter Grace and William S. Rukeyser are two of the prominent speakers who have appeared in the series.

## **Management Development Institute**

The School of Business Administration has established a Management Development Institute to help local businesses with their training and educational needs. The Center seeks to serve those needs by developing and/or coordinating various seminars for the local businesses.

## **Center for Entrepreneurship**

The primary purpose of the Center for Entrepreneurship is to provide relevant and practical information concerning starting and running a small business. The Center also seeks to encourage new business start-ups by providing student consultants and faculty evaluation of business plans.

## **Business Core Requirements**

All B.S.B.A. candidates must take the following "core" courses in addition to the courses required in their major (See course descriptions for prerequisites):

## **Business Administration**

### **Core Requirements**

		Semester Hours
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
Econ 350	Financial Management	3
GB 301	Legal Environment of Business I	3
GB 320	Business Comm	3
GB 321	Business Statistics I	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management	3
MM 237	Managerial Data Proc	3
MM 452	Strategic Mgmt	3
Advanced Business Elective*		3
<b>Total Business Core</b>		<b>39</b>

\*Must be selected in consultation with adviser from 300 or 400 level courses in School of Business Administration. May not be "double counted" as part of major requirements. Mathematics - All candidates for the B.S.B.A. degree must complete Mathematics 131, Finite Mathematics, as their Core Curriculum mathematics course.

### **Choose four:**

MM 312	Retailing	3
MM 321	Salesmanship	3
MM 401	Promotional Strategy	3
MM 412	Marketing Management	3
MM 432	Consumer Behavior	3
MM 470	Marketing Research	3

**12**  
**21**

### **Total for Minor**

The TQM Minor may be chosen by a BSBA and non-BSBA degree candidate.

## **Minor in Business:**

Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Econ 202	Prin of Economics-Micro*	3
Econ 350	Financial Management	3
MM 237	Managerial Data Processing	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management	3

**21**

## **Minor in Total Quality Management**

### **Choose two:**

Acct 201	Prin of Accounting I	3
MM 350	Prin of Management (WI)	3
MM 354	Total Quality Management	3
GB 405	Statistical Quality Control	3

**12**

### **Choose two:**

Acct 325	Managerial Accounting	3
GB 321	Business Statistics I	3
GB 322	Business Statistics II	3
MM 352	Human Resource Mgmt	3
MM 431	Operations Management	3
MM 452	Strategic Management	3

**6**  
**18**

### **Total for Minor**

\*Econ 201 should be taken as a Core Curriculum requirement.

## **Accounting**

*Matthews Hall 302, 625-9319*

**Faculty** Comstock, Cunningham, Goode, Paapanen, Roark, Shaver

The emphasis in accounting leads to the B.S.B.A. degree. A concentration in accounting is also available within the A.S. degree.

The B.S.B.A. degree with the accounting major is designed to prepare the student to enter any area of the accounting profession, successfully complete the Certified Public Accountant or other professional certification examination and to enter graduate school.

Prospective accounting majors should take note of new requirements for entry into the profession. Beginning in 1999, the State of Missouri will require 150 hours of college credit including an undergraduate degree before a candidate is allowed to sit for the Certified Public Accountant examination.

# 110 / Accounting

Arkansas and Kansas, along with more than 30 other states, have similar requirements. Beginning in the year 2000, the American Institute of Certified Public Accountants will also require new members to have 150 semester hours of college credit. Accounting majors desiring to meet this requirement should note the "150-hour" recommended courses at the end of the B.S.B.A. suggested order of study or plan to attend graduate school.

The A.S. accounting program of study is designed to prepare the student for book-keeping tasks which are a part of the accounting function. Graduates of this program usually serve at the first level in accounting firms or private businesses.

## Associate of Science with a Concentration in Accounting

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>25-26</b>
<b>Accounting Concentration</b>	<b>39</b>
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Acct 312 Intermediate Accounting I	3
Acct 322 Intermediate Accounting II	3
Acct 375 Tax Accounting I	3
GB 301 Legal Environment of Business I	3
GB 320 Business Communications (WI)	3
Econ 201 Prin of Economics-Macro	3
Econ 202 Prin of Economics-Micro	3
MM 237 Managerial Data Processing	3
MM 350 Prin of Management (WI)	3
Elective selected from:	3
Acct 325 Managerial Accounting	
GB 302 Legal Environment of Business II	
GB 321 Business Statistics I	
<b>Business Elective</b>	<b>3</b>
<b>Total</b>	<b>64-65</b>

## Bachelor of Science in Business Administration with an Emphasis in Accounting

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Business Core Requirements (p. 109)</b>	<b>39</b>
<b>Additional Business Core Requirements (Accounting majors only)</b>	<b>9</b>
GB 322 Business Statistics II	3
Math 302 Calculus for Mgmt & Social Sciences	3
MM 431 Operations Management	3

<b>Accounting Major</b>	<b>24</b>	2nd Semester	
Acct 310 Cost Accounting	3	Acct 310 Cost Accounting	3
Acct 312 Intermediate Accounting I	3	Acct 322 Intermediate Accounting II	3
Acct 322 Intermediate Accounting II	3	GB 320 Business Comm (WI)	3
Acct 332 Intermediate Accounting III	3	GB 322 Business Statistics II	3
Acct 375 Tax Accounting I	3	MM 300 Prin of Marketing	3
Acct 402 Advanced Accounting	3		<b>15</b>
Acct 411 Auditing	3		
Upper-level Accounting Elective (must be chosen with adviser approval)	3		
<b>Electives</b>	<b>5</b>		
		<b>128</b>	

### Suggested Order of Study

#### Bachelor of Science in Business Administration Major Code 0502 Accounting Emphasis

Freshman Year	
1st Semester	
Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetm Wellness]	2
Psy 120 College Orientation	1
	<b>16</b>

2nd Semester	
Acct 402 Advanced Accounting	3
Upper-level Accounting Elective (Must be selected with adviser approval. Internships, independent studies and VITA will not fulfill this requirement.)	
MM 431 Operations Management	3
MM 452 Strategic Management (WI)	3
<b>Electives</b>	<b>5</b>
	<b>17</b>
<b>Total for B.S.B.A. degree</b>	<b>128</b>

Sophomore Year	
1st Semester	
Course	Hours
Acct 201 Prin of Accounting I	3
CORE [Econ 201 Econ-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE [Hist 110 American History]	3
	<b>15</b>
2nd Semester	
Acct 202 Prin of Accounting II	3
Econ 202 Prin of Econ-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
Math 302 Calc for Mgmt & Soc Sci	3
CORE [Hist 120 American History]	3
	<b>15</b>

150-Hour Track	
First Semester	
Course	Hours
Acct 408 Tax Accounting II	3
Acct 431 Advanced Auditing	3
GB 420 Advanced Bus Comm	3
Econ 401 Microeconomic Analysis	3
	<b>12</b>
2nd Semester	
Acct 440 Profes & Ethics in Acct	3
Acct 499 Independent Study in Acct (to be arranged with adviser)	1
GB 302 Legal Envir of Bus II	3
Select one:	
Acct 418 Tax Accounting III	
Acct 420 Accounting Theory	
Acct 422 Advanced Cost Accounting	3
	<b>10</b>

Junior Year	
1st Semester	
Course	Hours
Acct 312 Intermediate Accounting I	3
Acct 375 Tax Accounting I	3
GB 301 Legal Envir of Bus I	3
GB 321 Business Statistics I	3
MM 350 Prin of Management (WI)	3
	<b>15</b>

Freshman Year	
1st Semester	
Course	Hours
Acct 201 Prin of Accounting I	3
CORE [Eng 101 Comp I]	3
CORE [PSc 120 or Hist 110]	3
CORE [Math 30 or higher]	3
CORE [HPER 103 Lifetm Wellness]	3
Business Elective	3
	<b>17</b>

2nd Semester		
Acct 202	Prin of Accounting II	3
CORE	[Psy 100 or Soc 110]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Art 110, Mus 110, Th 110, Literature or Phil 201]	3
GB 320	Business Comm (WI)	3
CORE	[HPER 101 Physical Activity] 1	
		<b>16</b>

## Sophomore Year

1st Semester		
Acct 312	Intermediate Accounting I	3
MM 237	Managerial Data Processing	3
GB 301	Legal Environment of Bus I	3
CORE	[Bio 110 or Phys 100]	4-5
CORE	[Econ 201 Econ-Macro]	3
		<b>16-17</b>

2nd Semester		
Acct 322	Intermediate Acct II	3
Acct 375	Tax Accounting I	3
Econ 202	Prin of Econ-Micro	3
MM 350	Prin of Management (WI)	3
Business Elective (Acct 325, GB 302, GB 321)		
		<b>15</b>

[Department Recommendation]

For additional information contact:  
 Dean of the School of Business  
 Office: Matthews Hall 302  
 Phone: 625-9319

## Course Descriptions

Acct 201 (F, S) 3 hrs. cr.  
**Principles of Accounting I**

Fundamental principles of accounting as applied to modern business practice. Study of the complete accounting cycle and analysis of balance sheets and income statements. Emphasis on a single owner business. Prerequisite or corequisite: Math 131.

Acct 202 (F, S) 3 hrs. cr.  
**Principles of Accounting II**

A continuation of Accounting 201 with an emphasis on corporations and cost/managerial accounting principles. Prerequisite: Acct 201.

Acct 310 (F, S) 3 hrs. cr.  
**Cost Accounting**

Study of accounting cost systems providing information generation for managerial planning and control. Special emphasis is placed on Total Quality Management as applied to industrial and service enterprises. Prerequisites: Acct 202, MM 237, GB 321.

Acct 312 (F, S) 3 hrs. cr.  
**Intermediate Accounting I**

First of three courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). The course is organized in three areas: (1) environment of financial accounting and basic theory underlying financial accounting; (2) accounting process from transaction analysis to financial statements; (3) accounting for assets. Prerequisites: Acct 202, MM 237.

Acct 322 (F, S) 3 hrs. cr.  
**Intermediate Accounting II**

Second of three courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). Emphasizes topics in areas of: (1) accounting for liabilities and assets; (2) shareholders' equity and earnings per share; (3) financial statement reporting and analysis. Prerequisite: Acct 312.

Acct 325 (F, S) 3 hrs. cr.  
**Managerial Accounting**

Use of accounting as a tool for the process of planning, controlling and decision making. Emphasis on where accounting data is obtained, what kind of information is needed and how it is used in the management process. This course may not be taken by the accounting major to satisfy accounting core requirements. Prerequisite: Acct 202.

Acct 332 (F, S) 3 hrs. cr.  
**Intermediate Accounting III**

Third of three courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). Covers the following areas: income taxes, post-retirement benefits, leases, cash flows, earnings per share, accounting changes and errors, financial reporting/analysis and accounting for changes in prices. Prerequisite: Acct 322.

Acct 375 (F, S) 3 hrs. cr.  
**Tax Accounting I**

Procedures for reporting federal income taxes with emphasis on income and deductions for individuals. Practice in preparing federal income tax returns. Prerequisite: Acct 202 or permission/ and MM 237.

Acct 402 (F, S) 3 hrs. cr.  
**Advanced Accounting**

Application of accounting principles of partnerships, branch accounting, business combinations, consolidated statements, segment reporting, reporting by multinational companies, bankruptcy and corporate reorganization, estates and trusts. Prerequisite: Acct 322

Acct 408 (Demand) 3 hrs. cr.  
**Tax Accounting II**

Procedures for reporting federal income taxes with emphasis on corporations, partnerships, estates and trusts. Practice in preparing federal income tax returns of these business entities. Prerequisite: Acct 375.

Acct 411 (F, S) 3 hrs. cr.  
**Auditing**

Overview of the certified public accounting profession with special attention to auditing standards, professional ethics, the legal liability inherent in the attest function, the study and evaluation of internal control, the nature of evidence, the growing use of statistical sampling, and performing an audit. Prerequisite: Acct 322.

Acct 412 (Demand) 3 hrs. cr.  
**CPA Problems**

Preparation for the Uniform Certified Public Accountant Examination. Includes methods of studying for the examination, lectures and problem solving exercises and a review of appropriate theoretical and technical pronouncements. Prerequisites: 21 hours of accounting including Acct 411 (Auditing) or senior standing AND permission of instructor.

Acct 418 (Demand) 3 hrs. cr.  
**Tax Accounting III**

Procedures for reporting federal income taxes with emphasis on family tax planning, international tax and multi-state tax reporting. In addition, tax research procedures will be used to integrate tax topics examined in Tax Accounting I and Tax Accounting II. Prerequisite: Acct 375.

Acct 420 (Demand) 3 hrs. cr.  
**Accounting Theory**

Study of the theory of income, asset valuation and history of accounting thought. Critical discussion of the authoritative pronouncements of the Financial Accounting Standards Board. Provides a coherent set of logical principles that form the general frame of reference for the evaluation and development of sound accounting principles. Prerequisite: Acct 322.

Acct 421 (F, S) 3 hrs. cr.  
**Governmental and Nonprofit Accounting**

Study of accounting principles, standards and procedures that apply to governmental entities. Primary emphasis is accounting for municipalities. Provides background for studying accounting systems of college and universities, hospitals and other nonprofit entities. Prerequisite: Acct 322.

Acct 422 (Demand) 3 hrs. cr.  
**Advanced Cost Accounting**

Advanced study in decision models and cost information, system choice, strategy and management control. Special emphasis on total quality management and time related management control initiatives. Prerequisite: Acct 310.

Acct 431 (Demand) 3 hrs. cr.  
**Advanced Auditing**

An integration of auditing concepts from Auditing I emphasizing specific applications of auditing principles and concepts. In addition, other specialized audit reports will be examined including prospective financial statements and compilation and review engagements. Examination of internal and operational audits as well as special topics in auditing. Prerequisite: Acct 411.

# 112 / Business Education

Acct 440 (Demand) 3 hrs. cr.

### **Professionalism and Ethics in Accounting**

A comprehensive examination of the ethical issues that may confront the student during their professional career. Provides a decision model for evaluating alternative courses of action when such dilemmas are encountered.

Acct 491 (Demand) 1-8 hrs. cr.

### **Internship in Public Accounting**

Selected senior accounting students serve an internship of approximately 60 work hours per credit hour earned as junior accountants on the staff of practicing certified public accountants and/or private industry. Supervised by faculty. Oral and written reports required. Prerequisites: Acct 322, 401, 411 and/or consent of the internship committee. (Not more than 3 hrs. per semester)

Acct 498 (Demand) 1-3 hrs. cr.

### **Seminar in Accounting**

For upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

Acct 499 (Demand) 1-3 hrs. cr.

### **Independent Study in Accounting**

Individually directed readings, research and discussion in selected areas of accounting for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and a minimum 3.0 GPA.

Accounting - Select one: 3

Acct 312 Intermediate Accounting I

Acct 325 Managerial Accounting

Acct 375 Tax Accounting

GB 110 Type/Format\* 3

GB 112 Type/Elec Doc Prod\* 3

GB 301 Legal Environment of Business I 3

GB 312 Prin of Business Educ 3

GB 320 Business Comm (WI) 3

Econ 201 Prin of Economics-Macro 3

Econ 202 Prin of Economics-Micro 3

MM 237 Managerial Data Processing 3

MM 300 Prin of Marketing 3

MM 337 Management Information Systems 3

MM 350 Prin of Management (WI) 3

## Suggested Order of Study

### **Bachelor of Science**

Major Code 0838

### **Plan B-Single Teaching Field**

### **Business Education**

#### **Freshman Year**

Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Art 110, Mus 110 or Th 110]	3
CORE	[Psy 100 Gen Psychology]	3
Educ 100	Orient to Educ I	1
CORE	[HPER 103 Lifetm Wellness]	2
Psy 120	College Orientation	1
		16

#### 2nd Semester

CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Hist 120 or 320]	3
CORE	[Math 131 Finite Math]	3
GB 110	Type/Format (GB 105)	3
Psy 302	Exceptional Child	2
		17

#### **Sophomore Year**

1st Semester		
CORE	[Econ 201 Econ-Macro]	3
Acct 201	Prin of Acct I (Math 131)	3
CORE	[Bio 101 General Biology]	4
Educ 200	Orient to Educ II	1
CORE	[Literature (Eng 261, 262, 271, 272, 281, 282)]	3
CORE	[HPER 101 Physical Activity]	1
Psy 310	Educational Psychology	2
		17

#### 2nd Semester

Acct 202	Prin of Acct II (Acct 201)	3
Econ 202	Prin of Economics-Micro	3
MM 237	Managerial Data Processing	3
CORE	[Phys 100]	5
CORE	[Comm 100 or 103]	3
		17

#### **Junior Year**

1st Semester		
Acct 312	Intermediate Accounting I	
OR		
Acct 325	Managerial Accounting	
OR		
Acct 375	Tax Accounting (Acct 202)	3
GB 301	Legal Environment of Bus I	3
Educ 321	Microteaching, Secondary	2
Educ 329	Ped Theo, Methods & Pract	4
Educ 423	Classroom Management	2
Psy 301	Adolescent Psychology	3
		17

#### 2nd Semester

CORE	[Humanities and Fine Arts]	3
GB 112	Typ/Elec Doc Prod (GB 110)	3
GB 320	Dus Comm (WI) (Eng 102)	3
MM 300	Prin of Marketing (Econ 202)	3
Educ 422	Reading Secondary	2
		14

## Business Education

Matthews Hall 302, 625-9319

Faculty Block, Rusley

### **Bachelor of Science in Education with Business as One of Two Teaching Fields (Plan A)**

The B.S.E. business major course of study prepares graduates to teach business as either a single or dual field at the secondary level.

### **Bachelor of Science in Education with Business as a Single Teaching Field (Plan B)**

	Semester Hours
<b>Core Requirements (p. 41)</b>	51
<b>Education courses (p. 124-136)</b>	38
<b>Business Major</b>	42
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3

\*Students having proficiency in typewriting may ask to be tested.

If advanced standing is granted in the subject, the student will substitute another course to meet the 30 hour requirement.



# 114 / Economics and Finance, Entrepreneurship

Econ 202 (F, S) 3 hrs. cr.	Econ 402 (S) 3 hrs. cr.	Econ 499 (Demand) 1-3 hrs. cr.
<b>Principles of Economics (Micro)</b> A continuation of economic principles with emphasis on the theory of price determination and income distribution, with particular attention to the nature and application of those bearing on decision making within a household, firm or industry; cost and revenue implications of various product and factor market structures; and international trade. Prerequisite: Sophomore standing or permission, Math 130 or above.	<b>Macroeconomic Analysis</b> National income determination with various macroeconomic models; fiscal and monetary policy; international linkages; consumption and investment; trade-offs between inflation and unemployment. Prerequisite: Econ 300.	<b>Independent Study in Economics-Finance</b> Individually directed readings, research and discussions in selected areas of economics and finance for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA.
Econ 300 (F, S) 3 hrs. cr.	Econ 411 (F) 3 hrs. cr.	
<b>Money and Banking</b> The nature, need, functions, role, creation and destruction of money and credit; financial institutions and their functions with special emphasis on the commercial banking system and the Federal Reserve system; introduction to monetary theory and policy; international aspects of money and monetary policy. Prerequisites: Econ 201.	<b>Investments</b> Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ 350.	
Econ 302 (Demand) 3 hrs. cr.	Econ 412 (Demand) 3 hrs. cr.	
<b>Economic Growth and Development</b> The meaning of economic growth and development, the problems associated with measurement and comparisons of economic growth between more developed and less developed countries, the study of changes that take place in the course of growth, the factors that contribute or hinder growth, economic growth theories and models, policy considerations and the international aspects of economic growth. Prerequisites: Econ 201 and 202.	<b>Urban and Regional Economics</b> Introduction to the application of economic principles in the study of urban and regional economic environment. Analysis of spatial price theory, transportation costs, the law of markets, location theory and the spatial distribution of activities, economic base theory input-output technique, central place theory, land use, regional growth, migration, regional policy objectives and current urban problems. Prerequisites: Econ 201 and 202.	
Econ 312 (Demand) 3 hrs. cr.	Econ 415 (Demand) 3 hrs. cr.	
<b>Economic Resources</b> Allocation of resources in order to satisfy human wants and desires through the use of economic principles and concepts. Both micro and macro principles used as well as functional concepts of resources, trends in resource development and utilization and an appraisal of resource potentials. Prerequisites: Econ 201 and 202.	<b>Financial Institutions</b> A broad introduction to the operation, mechanics and structure of the financial system of the U.S. Emphasis on the major institutions, including the Federal Reserve System, commercial banks and savings institutions and on the primary markets (money and capital) that make up the system of intermediation of savings into investment.	
Econ 330 (Demand) 3 hrs. cr.	Econ 420 (Demand) 3 hrs. cr.	
<b>Principles of Insurance</b> Survey of the fundamentals of insurance including risk management, interpretation of policies, property insurance, liability insurance, health insurance and life insurance. Prerequisite: Econ 201 and 202.	<b>Security Analysis</b> A broad introduction to basic stock selection using fundamental analysis whereby "over" and "under" valued stocks are to be identified. The class will construct a common stock portfolio of 10 to 50 stocks. Other topics covered will include; basic schools of investment thought (EMH, fundamental, technical diversification, quality of earnings and factors affecting equity ownership.	
Econ 350 (F, S) 3 hrs. cr.	Econ 450 (Demand) 3 hrs. cr.	
<b>Financial Management</b> Study of the financial operating environment and financial analyses; risk and valuation, time value of money, capital budgeting, cost of capital and leverage, working capital management and dividend policy. Prerequisites: Econ 201 and 202, Acct 202, MM 237.	<b>Financial Strategy</b> Financial planning, capital budgeting under constraints of mutual exclusiveness and capital rationing, leverage (both operating and financial), debt financing, common stock (including dividend policy), preferred stock, leasing, mergers, LBO's, and international finance using a case study approach. Prerequisite: Econ 350.	
Econ 401 (F) 3 hrs. cr.	Econ 498 (Demand) 1-3 hrs.	
<b>Microeconomic Analysis</b> The price system and resource allocation through a system of markets and prices; price and output determination in perfect and imperfect markets; resource markets and income determination. Prerequisites: Econ 201 and 202.	<b>Seminar in Economics and Finance</b> Seminar for upper division majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are: 498-Seminar in International Economics 498-Seminar in Business Cycles 498-Seminar in Public Finance	

## Entrepreneurship

Matthews Hall 302, 625-9319

**Faculty** Bradshaw, Hartman, Kleindl

A concentration in entrepreneurship is offered for all students, regardless of major, to enhance success of small business start-ups. This concentration prepares the students to start their own businesses.

### Requirements for a Concentration in Entrepreneurship:

	Semester Hours
Ent 201	Entrepreneurship - Developing a Business Plan 1
Ent 202	Entrepreneurship - Business Opportunities 1
Ent 203	Entrepreneurship - Legal Aspects 1
Ent 204	Entrepreneurial Financing and Information - Initial Capitalization 1
Ent 205	Entrepreneurial Financing and Information - Cash Flow Budgeting 1
Ent 206	Entrepreneurial Financing and Information - Micro-computer Applications 1
Ent 207	Accounting for the New Venture - Procedures 1
Ent 208	Accounting for the New Venture - Records 1
Ent 209	Accounting for the New Venture - Taxation 1
Ent 210	Managing the Small Business - The Management Process 1
Ent 211	Managing the Small Business -Strategic Planning and Organizing 1
Ent 212	Managing the Small Business - Human Relations 1
Ent 213	Marketing the Small Business - Promotion 1
Ent 214	Marketing the Small Business - Pricing 1
Ent 215	Marketing the Small Business - Merchandise/Inventory 1

## General Business

Matthews Hall 302, 625-9319

**Faculty** Block, Bradshaw, Cragin, Goode, Johnson, Kleindl, Larson, Miller, Rusley, Tiede, Vernon

The B.S.B.A. degree program in general business is intended to give the broadest possible background to the graduate and to prepare the graduate for managerial positions in the public and private sectors. The A.S. degree program prepares the graduate for first line supervisory and managerial duties.

### Bachelor of Science in Business Administration with an Emphasis in General Business

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Business Core (p. 109)</b>	<b>39</b>
<b>General Business Emphasis:</b>	<b>18</b>
Acct 325 Managerial Acct	3
Econ (selected from 300, 302, 312, 330, 401, 411, 412, 415)	3
MM (selected from 352, 410, 412, 431, 441)	3
MM (selected from 312, 321, 401, 412, 432, 470)	3
MM 337 Management Information Systems	3
Advanced Business Elective (must be selected with adviser consultation & approval)	3
<b>Electives</b>	<b>20</b>
	<b>128</b>

### Associate of Science in General Business

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>25-26</b>
<b>General Business Concentration</b>	<b>27</b>
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Econ 201 Prin of Economics-Macro	3
Econ 202 Prin of Economics-Micro	3
GB 301 Legal Environment of Business I	3
GB 302 Legal Environment of Business II	3
MM 237 Managerial Data Processing	3

MM 300 Prin of Marketing	3
MM 350 Prin of Management (WI)	3
<b>Business Electives (must be selected with approval of faculty adviser)</b>	<b>12</b>
	<b>64-65</b>

2nd Semester	
Advanced Elective in Econ/Fin (must be selected from Econ 300, 302, 312, 330, 401, 402, 411, 412 or 415)	3
Advanced Elective in Management (must be selected from MM 352, 354, 410, 412, 431, or 441)	3
GB 321 Business Statistics	3
Advanced Business Elective (must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)	3

MM 350 Prin of Management (WI)	3
Electives	3
	<b>18</b>

<b>Senior Year</b>	
1st Semester	
Advanced Elective in Marketing (must be selected from MM 312, 321, 401, 412, 432 or 470)	3
Econ 350 Financial Management I	3
CORE [International Cultural Stu] (GB 310 Strongly recommended)	3
CORE [Humanities and Fine Arts] (See Core Requirements, p. 41)	3
Electives	6
	<b>18</b>

2nd Semester	
Advanced Business Elective (must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business Administration)	3
MM 452 Strategic Management (WI)	3
Electives	10
	<b>16</b>
	<b>128</b>

<b>Associate of Science</b>	
Major Code 5001	
<b>General Business Concentration</b>	

<b>Freshman Year</b>	
1st Semester	
Acct 201 Prin of Acct I	3
Econ 202 Economics-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE [Hist 120 American History]	3
Elective	3
	<b>15</b>

2nd Semester	
Acct 202 Prin of Accounting II	3
CORE [Econ 201 Economics-Macro]	3
CORE [Hist 110 or PSc 120]	3
CORE [Comm 100 Oral Comm]	3
CORE [Art 110, Mus 110, Th 110, Literature or Phil 201)]	3
CORE [HPER 101 Physical Activity]	3
	<b>16</b>

<b>Junior Year</b>	
1st Semester	
Acct 325 Managerial Acct	3
GB 301 Legal Environment of Bus I	3
GB 320 Business Comm (WI)	3
MM 300 Prin of Marketing	3
MM 337 Management Infor Systems	3
	<b>15</b>

# 116 / General Business, Management

## Sophomore Year

### 1st Semester

Business Electives (must be selected

with adviser approval)

GB 301	Legal Environment of Bus I	3	6
Econ 202	Prin of Economics-Micro	3	
MM 350	Prin of Management (WI)	3	

15

### 2nd Semester

GB 302 Legal Environment of Bus II

MM 300 Prin of Marketing

Business Electives (must be selected

with adviser approval)

CORE	[Bio 101 or Phys 100]	4-5	6
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16-17

[Department Recommendations]

For additional information contact:

Dean of the School of Business

Office: Matthews Hall 302

Phone: 625-9319

## Course Descriptions

GB 101 (F, S) 3 hrs. cr.

### Introduction to Business

Modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law and taxation. Not available for credit for those with more than 6 hrs. of business.

GB 105 (F) 3 hrs. cr.

### Computer Keyboarding

Learn or review the proper techniques for alphabet and number keys. Letter styles, proper report formats, simple tabulations, and employment communications are taught using basic WordPerfect commands. Speed and accuracy in editing are stressed so the student will acquire a personally useful skill.

GB 110 (F, S) 3 hrs. cr.

### Computer Formatting

Covers all styles of business letters, reports, memos, and tables. Some of the advanced WordPerfect commands used are: headers and footers, macros, merge, switch/windows, text in/out, and tables. Prerequisite: GB 105 or a good knowledge of the keyboard and familiarity with word processing.

GB 112 (F, S) 3 hrs. cr.

### Computer Document Production

Production of all types of letters, reports, business forms, legal forms accounting forms, tables, and desktop publishing using WordPerfect. Realistic, integrated office projects are used. Prerequisite: GB 110 or equivalent.

GB 250 (Demand) 3 hrs. cr.  
**Word Processing Concepts/Applications**

Introduction to the total concept of word processing as it relates to administrative services and machine technology in the modern business organization. Prerequisite: GB 105 Computer Keyboarding or equivalent.

GB 301 (F, S) 3 hrs. cr.

### Legal Environment of Business I

Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes the court systems and procedures, contracts, personal property and bailments, sales and commercial paper. Special emphasis on Missouri case-law and statutes.

GB 302 (F, S) 3 hrs. cr.

### Legal Environment of Business II

Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Brief overview of criminal law and tort law, government control and regulation, secured transactions, insurance, bankruptcy, agency and employment, partnerships, corporations, real property and estates. Prerequisite: Junior standing.

GB 310 (F, S) 3 hrs. cr.

### International Business

Introduction to the intricacies and complexities of international trade and business. The course provides an overview of the international organizations and the effects of the foreign environment on international business. The course will focus on cultural differences; theories of international trade and economic development; international finance; marketing internationally and practical applications of starting and maintaining international business relationships. Prerequisites: Econ 180 or Econ 201.

GB 312 (F) 3 hrs. cr.

### Principles of Business Education

Fundamentals of business education including curriculum, trends, equipment, materials, professional organizations and vocational programs. For business education majors only.

Educ 336 (S) 3 hrs. cr.

### Teaching Business in Secondary Schools

(See Educ 336)

GB 320 (F, S) 3 hrs. cr.

### Business Communication (Writing Intensive)

Principles of writing effective letters, memos and reports to solve real-world situations. Emphasis on contemporary issues and the employment process. Prerequisites: 6 hrs. English Comp or permission of instructor.

GB 321 (F, S) 3 hrs. cr.

### Business Statistics I

Methods of collection, analysis, interpretation and presentation of data related to business. Topics include frequency distribution, measures of central tendencies and dispersion, regression and correlation analysis, probability concepts, sampling distributions, estimation procedures and hypothesis testing. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: Math 130, 131 or higher, MM 237.

GB 322 (S) 3 hrs. cr.

### Business Statistics II

Methods of statistical analysis relating to business decision making and research in business and economics. Emphasizes sampling theory, parametric test of hypothesis, analysis of variance, nonparametric test of hypothesis, statistical quality control and other selected statistical techniques. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: GB 321.

GB 405 (Demand) 3 hrs. cr.

### Statistical Quality Control

Impact of foreign competition on American industry and need for quality productivity and management improvement. Attention to the Deming management principles and statistical and quantitative methods used by major industries. Prerequisites: GB 321 or consent of instructor.

GB 498 (Demand) 1-3 hrs. cr.

### Seminar in General Business

For upper division general business or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminar topics offered in the past include office machines, career orientation and human relations.

GB 499 (Demand) 1-3 hrs. cr.

### Independent Study in General Business

Individually directed readings, research and discussions in selected areas of general business for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA.



Matthews Hall 302, 625-9319

**Faculty** Block, Bradshaw, Cragin, Gray, Johnson, Marion, Rozell, Stevens, Vernon

The B.S.B.A. degree with an emphasis in management is designed to prepare the graduate for entry level positions of responsibility in both the private and public sectors.

## Bachelor of Science in Business Administration with an Emphasis in Management

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Business Core Requirement (p. 109)</b>	<b>39</b>
<b>Management Emphasis</b>	<b>18</b>
Acct 325 Managerial Acct	3
MM 337 Management Information Systems	3
MM 352 Human Resource Mgmt	3
MM 431 Operations	3
MM 441 Organizational Behavior	3
Advanced Elective (MM 354, 410, 411 or 412 strongly recommended)	3
<b>Electives</b>	<b>20</b>
	<b>128</b>

### Suggested Order of Study

#### Bachelor of Science in Business Administration Major Code 0507 Management Emphasis

<b>Freshman Year</b>	
1st Semester	
Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetm Wellness]	2
Psy 120 College Orientation	1
	<b>16</b>
2nd Semester	
CORE [Eng 102 Comp II]	3
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Comm 100 or 103 Comm]	3
CORE [Pys 100 or Soc 110]	3
CORE [HPER 101 Physical Activity]	1
	<b>15</b>

<b>Sophomore Year</b>	
1st Semester	
Acct 201 Prin of Acct I	3
CORE [Econ 201 Econ-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE [Hist 110 American History]	3
	<b>15</b>
2nd Semester	
Acct 202 Prin of Acct II	3
Econ 202 Prin of Econ-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE [Hist 120 U.S. 1877 - Pres]	3
Elective	3
	<b>15</b>

<b>Junior Year</b>	
1st Semester	
Acct 325 Managerial Accounting	3
GB 301 Legal Environment of Bus I	3
GB 320 Business Comm (WI)	3
MM 300 Prin of Marketing	3
MM 337 Mgmt Information Systems	3
	<b>15</b>
2nd Semester	
GB 321 Business Statistics	3
Econ 350 Financial Management	3
MM 350 Prin of Management (WI)	3
MM 352 Human Resource Mgmt	3
Advanced Business Elective (must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)	3
Elective	3
	<b>18</b>

<b>Senior Year</b>	
1st Semester	
MM 431 Operations Management	3
MM 441 Organizational Behavior	3
CORE [International Cultural Stu] (GB 310 Strongly recommended)	3
CORE [Humanities & Fine Arts Elective] (See Core requirements, p. 41)	3
Electives	6
	<b>18</b>
2nd Semester	
Advanced Elective (must be selected in consultation with adviser: MM 354, 410, 411 or 412 strongly recommended)	3
MM 452 Strategic Management (WI)	3
Electives	10
	<b>16</b>
[Department Recommendations]	

For additional information contact:  
Dean of the School of Business  
Office: Matthews Hall 302  
Phone: 625-9319

## Marketing

Matthews Hall 302, 625-9319

**Faculty** Blades, Bradshaw, Johnson, Kleindl, Miller

The B.S.B.A. with the marketing emphasis is intended to prepare graduates for positions in retailing, sales management, promotion, research and general administration.

## Bachelor of Science in Business Administration with an Emphasis in Marketing

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Business Core Requirements (p. 109)</b>	<b>39</b>
<b>Marketing Emphasis</b>	<b>18</b>
MM 312 Retailing	3
MM 321 Salesmanship	3
MM 401 Promotional Strategy	3
MM 412 Marketing Management	3
MM 432 Consumer Behavior	3
MM 470 Marketing Research	3
<b>Electives</b>	<b>20</b>
	<b>128</b>

### Suggested Order of Study

#### Bachelor of Science in Business Administration Major Code 0505 Marketing Emphasis

##### Freshman Year

1st Semester	
Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetm Wellness]	2
Psy 120 College Orientation	1
	<b>16</b>
2nd Semester	
CORE [Eng 102 Comp II]	3
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Comm 100 or 103 Comm]	3
CORE [Pys 100 or Soc 110]	3
CORE [HPER 101 Physical Activity]	1
	<b>15</b>

##### Sophomore Year

1st Semester	
Acct 201 Prin of Acct I	3
CORE [Econ 201 Econ-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE [Hist 110 American History]	3
	<b>15</b>
2nd Semester	
Acct 202 Prin of Acct II	3
Econ 202 Prin of Econ-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE [Hist 120 American History]	3
Elective	3
	<b>15</b>

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## Junior Year

### 1st Semester

GB 301	Legal Environment of Bus I	3
GB 321	Business Statistics	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
Elective		3

### 2nd Semester

GB 320	Business Comm (WI)	3
MM 312	Retailing	3
MM 321	Salesmanship	3
Electives	(must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)	9
		18

## Senior Year

### 1st Semester

MM 401	Promotional Strategy	3
MM 412	Marketing Management	3
CORE	[International Cultural Studies]	
	(GB 310 strongly recommended)	3
CORE	[Humanities & Fine Arts Elective]	
	(See Core Requirements p. 41)	3
Electives		6
		18

### 2nd Semester

MM 432	Consumer Behavior	3
MM 452	Strategic Management (WI)	3
MM 470	Marketing Research	3
Electives		8
		17
		129

[Department Recommendations]

For additional information contact:

Dean of the School of Business

Office: Matthews Hall 302

Phone: 625-9319

## Management Technology

Matthews Hall 302, 625-9319

The B.S. in management technology major course of study is for students who have already received an associate degree in a technical field or other technical preparation approved by the adviser and school dean and who desire to obtain the necessary business skills to become technical supervisors or first line managers. Students must apply for admission to the program in the first semester of the junior year.

## Bachelor of Science in Management Technology

### Semester Hours

Core Curriculum (p. 41)	51
Management Technology Major	36

### (1) Required:

Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
GB 301	Legal Environment of Business I	3
GB 302	Legal Environment of Business II	3
GB 320	Business Comm (WI)	3
Econ 201	Prin of Economics-Macro	3
Econ 202	Prin of Economics-Micro	3
Econ 350	Financial Management	3
MM 237	Managerial Data Processing*	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management (WI)	3
MM 431	Operations Management	3

### (2) Three additional courses selected from:

Acct 325	Managerial Accounting	
GB 321	Business Statistics I	
GB 405	Statistical Quality Control	
MM 352	Human Resource Management	
MM 354	Total Quality Management	
MM 401	Promotional Strategy	
MM 412	Marketing Management	
MM 452	Strategic Management (WI)	9

\*Students obtaining an A.S. in computer science may not choose MM 237 as a required elective.

Students who complete this combination of courses will have been exposed to the new "World Class Management Technology" which will characterize manufacturing competition well into the next century.

## Bachelor of Science in Management Technology (MIMS Emphasis)

### Semester Hours

Core Curriculum (p. 41)	51
Associate of Science degree in Technical Studies and approval	36

Acct 201	Prin of Accounting I	3
GB 321	Business Statistics	3
Econ 202	Prin of Economics-Micro (Core Requirement)	3
MM 350	Prin of Management	3
MM 354	Total Quality Management	3
GB 405	Statistical Quality Control	3
MM 431	Operations Management	3

### School of Business Total

21

MIMS 310	Computer Production Planning/Control	3
MIMS 320	Applied Quality Control	3
MIMS 350	Industrial Supervision	3
CIS 315	Networking	3
MIMS 420	Manufacturing Computer Applications	3
MIMS 450	Electronic Data Systems	3
MIMS 490	Manufacturing Applications	3

### School of Technology Total

21

42

129

## Management Technology (MIMS)

Matthews Hall 302, 625-9319

The School of Business Administration, in cooperation with the School of Technology, offers the bachelor of science in management technology with emphasis in manufacturing information management systems (MIMS).

The emphasis area is designed to recognize the revolution in the management of materials, production processes, personnel and information which has taken place in the last decade. This program takes advantage of the existing excellence Missouri Southern has achieved in the CADD and CAM areas and combines it with the latest advances in the business area as presented by course work in the School of Business Administration.

## Suggested Order of Study

### Bachelor of Science in Management Technology with an emphasis in Manufacturing Information Management Systems (MIMS)

#### Junior Year

##### 1st Semester

Course	Hours	
MIMS 310	Comp Prod Plan/Control	3
Acct 201	Prin of Accounting I	3
GB 321	Business Stats I	3
MM 350	Prin of Management	3
CORE	[Eng 102 Comp II]	3
CORE	[Econ 201 Econ-Macro]	3

18

##### 2nd Semester

MM 354	Total Quality Mgmt	3
GB 405	Statist Quality Control	3
MIMS 420	Mfg Computer Appl	3
CORE	[Fine Arts/Humanities]	3
CORE	[Bio 101 Gen Biology]	4
CORE	[GB 310 Intro to Business]	3

16

<b>Senior Year</b>		
1st Semester		
CIS 315 Lan Mgmt	3	
MM 431 Operations Mgmt	3	
MIMS 320 Applied Stat Quality Ctrl	3	
MIMS 350 Ind Supervision	3	
CORE [Fine Arts/Humanities]	3	
	<b>15</b>	
2nd Semester		
Econ 202 Prin of Econ-Micro	3	
MIMS 450 Electronic Data Systems	3	
MIMS 490 Mfg Appl	3	
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3	
CORE [Hist 120/320]	3	
	<b>15</b>	

For additional information contact:  
 Dean of School of Business Administration  
 Office: Matthews Hall 302  
 Phone: 625-9319

For additional information on MIMS degree:  
 Dean of School of Technology  
 (See page 149 for course descriptions)  
 Office: EMS Building  
 Phone: 625-9328

Students should consult the Dean of the School of Technology at the earliest possible date in order to incorporate the correct sequence into the appropriate associate of science degree program.

MM 321 (F) <b>Salesmanship</b>	3 hrs. cr.	MM 412 (F) <b>Marketing Management</b>	3 hrs. cr.
Principles and methods of effective personal and industrial selling. Stresses practical aspects through actual sales presentation by the students who are videotaped and critiqued according to basic selling principles. Prerequisite: MM 300.			

MM 337 (F, S) <b>Management Information Systems</b>	3 hrs. cr.
Familiarizes business students with management information systems, including proper selection of software and hardware components. Prerequisite: MM 237 or CIS 115 and 120.	

MM 350 (F, S) <b>Principles of Management</b> (Writing Intensive)	3 hrs. cr.
A study of the planning, organizing, leading and controlling functions of management including global, social responsibility and ethical management challenges. Prerequisite: Junior standing.	

MM 352 (F, S) <b>Human Resource Management</b>	3 hrs. cr.
Principles and practices of management with emphasis on the human factors, including procurement, development and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.	

MM 354 (F, S) <b>Total Quality Management</b>	3 hrs. cr.
Total Quality Management (TQM) is an overview of an evolving philosophy for continuous improvement of products, process and services to enhance quality while reducing costs. It is a management/technical/cultural approach to the integration of all systems and processes of an enterprise to achieve "customer" satisfaction. Prerequisite: MM 350, GB 321 or consent of instructor.	

MM 401 (S) <b>Promotional Strategy</b>	3 hrs. cr.
Description of fundamental advertising and promotional principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising and formulation of campaigns. Prerequisite: MM 300.	

MM 410 (F, S) <b>Small Business Management Practicum</b>	3 hrs. cr.
A practical course in solving real problems in an actual business environment. Students provide counseling to small business firms through cases referred by the Small Business Administration. Course may be repeated for a total of six hours of credit. Prerequisite: Second semester junior or senior standing in business administration and permission of instructor. Application for admission to the course is required. Formerly GB 410.	

MM 411 (Demand) <b>Labor Law</b>	3 hrs. cr.
Significant legislation and the accompanying case decisions which have a major impact on labor/management relations. Primary emphasis on the Labor-Management Relations Act, as amended, with special attention to establishment of the bargaining unit and unfair labor practices of both labor and management. Secondary emphasis on Fair Employment practices. Prerequisite: Junior standing. Formerly GB 411.	

MM 412 (F) <b>Marketing Management</b>	3 hrs. cr.
Managerial aspects of marketing: problems involved in goal setting, planning and strategies as they apply to product policy, pricing objectives, promotional objectives, distribution policy and marketing intelligence. Prerequisites: MM 300 and MM 350.	

MM 431 (F) <b>Operations Management</b>	3 hrs. cr.
Principles and decision analysis related to the effective utilization of the factors of production and operations in manufacturing activities for both intermittent and continuous systems. The study of operations management, analytical models and methods, facilities design and the use of computer modeling for control systems for effective production operations. Prerequisite: GB 321, Business Statistics I.	

MM 432 (Demand) <b>Consumer Behavior</b>	3 hrs. cr.
An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchase of goods and services. The purchaser's psychological, economic and socio-cultural actions and reactions are stressed. Prerequisite: MM 300.	

MM 441 (F, S) <b>Organizational Behavior</b>	3 hrs. cr.
A study of the organization, human behavior in organizational settings and the interface between them. Prerequisite: MM 350, Senior standing.	

MM 450 (Demand) <b>The Psychology of Human Resource Management</b>	3 hrs. cr.
Traditional areas of human resource management/organizational psychology are addressed, including group interaction, communication, attitudes, interviewing, compensation and benefits and the legal environment. An interdisciplinary approach will be taken. The contents will be presented using both theory and experimental methods.	

MM 452 (F, S) <b>Strategic Management</b> (Writing Intensive)	3 hrs. cr.
A capstone course integrating business disciplines with formal analyses of the organization's macro and industry environment; mission and goals; and strategy formulation, implementation and control using the case approach method. Prerequisites: Senior standing, MM 300, MM 350, Econ 350; must be taken during the last year of college work.	

MM 470 (S) <b>Marketing Research</b>	3 hrs. cr.
The systematic gathering, recording, analyzing and presentation of data relating to market analysis, sales analysis, consumer research, advertising research and attitude research. Prerequisites: GB 321 and six hours of marketing.	

## **Course Descriptions**

MM 237 (F, S) <b>Managerial Data Processing</b>	3 hrs. cr.
Principles of information processing in the business environment. Covers components of personal and business information systems and introduction to DOS/Windows and industry standard application software packages (i.e. word processing and spreadsheet). Includes hands-on use of microcomputers.	

MM 300 (F, S) <b>Principles of Marketing</b>	3 hrs. cr.
Survey of major marketing methods, institutions and practices. Retailing, wholesaling, distribution channels, marketing legislation, advertising, marketing research and marketing cost are treated from the standpoint of consumers, middlemen and manufacturers. Prerequisite: Econ 202.	

MM 312 (F) <b>Retailing</b>	3 hrs. cr.
Principles of successful retail management, including managing retail operations, administration and control, location analysis, merchandising, promotion and review of the retail environment; with analytic and research methods applicable to retail problems. Prerequisite: MM 300.	

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MM 491 (F, S) 18 hrs. cr.

**Internship in Marketing/Management**

An internship for senior marketing/management students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: 65 hours, 3.00 GPA and department approval.

MM 498 (Demand) 1-3 hrs. cr.

**Seminar in Marketing and Management**

Seminar for upper division marketing and management or related majors with topics to be announced each time the course is offered. Pre-requisite: Senior standing or permission.

MM 499 (Demand) 1-3 hrs. cr.

**Independent Study in Marketing and Management**

Individually directed readings, research and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: GPA of 3.0 in major field and permission.

# School of Education & Psychology



**Teacher Education  
Physical Education  
Psychology**

# School of Education & Psychology

## School Dean

Michael John Horvath  
Taylor Hall 220, 625-9314

## Degrees and Majors

### Bachelor of Arts

Psychology  
Health Promotion and Wellness

### Bachelor of Science

Psychology

### Bachelor of Science in Education

Elementary Education  
Secondary Education  
Physical Education

## Role

The School of Education and Psychology shares in the mission of Missouri Southern by providing the professional education for preservice elementary and secondary teachers, and by preparing students in professional education and psychology for graduate education. The School of Education and Psychology serves the institution by providing support courses in physical education and psychology to the Core Curriculum.

The programs in the School of Education and Psychology are service-oriented and attract students who wish to make their contribution to society through teaching, research and humanitarian services. Because of the critical nature of the contributions these students make to society, those who are academically talented are encouraged to participate in the program.

A unique characteristic of the basic teacher preparation program is the shared responsibility for training preservice elementary and secondary teachers with academic units outside of the School of Education and Psychology. Eighty percent of the course work in secondary education and 70 percent of the course work in elementary education is done in academic units outside the professional education unit. The Secondary Education Committee coordinates the work done by secondary education students in academic units in the School of Arts and Sciences and the School of Business Administration. All academic units have representatives on this committee. The ultimate responsibility for all teacher education programs rests with the Education Department, which is the governing unit for the basic teacher preparation program.

## Scope

The School of Education and Psychology contributes to the mission of the College through teaching, community service and research.

The faculty in the School of Education and Psychology are dedicated to providing students with exemplary teaching. Since the faculty serve as professional role models for their students, they are aware of current pedagogical practices that have been developed from research and learning theory and they use this knowledge to develop teaching methods, techniques and procedures to create a maximal learning environment. Faculty provide services to the community by participating in civic organizations as leaders, members and consultants. All of the faculty work with the area schools through in-service programs, programs that have been developed for children and as consultants.

The faculty contribute to the advancement of knowledge in their respective fields through research and writing. Research that has been done in area schools has contributed to the improvement of the quality of teaching.

## Teacher Education

The description of the teacher education program and the requirements that are listed for each program in teacher education in this catalog are subject to change during the period that this catalog is in use; therefore, the catalog is not a contract and should not be treated or viewed that way. At best, it is a guide. Teacher education students are encouraged to obtain degree plan sheets for the program they are pursuing and work closely with their advisers. As changes are made by the State Department of Elementary and Secondary Education, state legislature, and national accrediting bodies, we will alert the students in the program.

The teacher education program consists of the education department as the governing unit, the secondary education committee which oversees the secondary education program, the teacher education council, and the committee on admissions and retention.

The education department, in its function as the governing unit in teacher education, oversees all teacher education programs and is specifically responsible for the elementary education program grades 1 through 6, early childhood education program preschool through 3, middle

school program grades 5 through 9, reading education program grades K through 12, and special education programs grades K through 12.

The Dean of the School of Education and Psychology is the chief spokesman for the teacher education program and in this capacity is the chief administrator responsible for the teacher education programs. The dean serves in this capacity under the direction of the president of the college, senior vice president and the vice president for academic affairs.

The teacher education program is based on a decision making model which defines the role of the teacher as decision maker. In this role, the teacher must make decisions about pedagogical design and lesson design. Decisions concerning pedagogical design include those regarding classroom management, curriculum development, field experiences, technology and program evaluation. Decisions about lesson design include communications, use of science, technology and the arts, problem solving, value clarification, intellectual domains and social institutions. An extension of the role of the teacher as a decision maker includes the teacher as a change agent, learner, provider of services and researcher.

Central to the conceptualization of the role of the teacher is the knowledge base. The knowledge base is composed of knowledge, skills, techniques, concepts, constructs, etc., that have been gathered from research, reported effective practices and learned societies in such areas as school effectiveness, principles of effective instruction, human growth and development, learning theory, assessment, cultural diversity and special needs, curriculum content, and psychological, sociological, historical and philosophical foundations.

In order to be an effective decision maker, the teacher must possess certain knowledges, cognitive abilities and pedagogical skills. To assure the teacher education program provides these knowledges and skills, the objectives below were developed:

1. to provide a working knowledge and competency in the philosophical, sociological and psychological foundations of education. This knowledge is used as a basis for decision making, instructional design and educational planning;

2. to guide in the effective application of learning theory. This application shall include the learning environment, learner attributes and learning tasks;
  3. to provide cognitive, affective and psychomotor learning in communication, problem solving, value clarification, social institutions, science and technology and the arts;
  4. to develop an understanding of how the human grows and develops. This understanding includes the theoretical basis for development and how this relates to teaching and learning;
  5. to create an awareness of the cultural diversity that exists in our society and to provide knowledge relative to the contribution made by the various cultures to the American culture;
  6. to develop teaching expertise in the teaching specialty which shall include both breadth and depth in subject matter as well as the methods, techniques and skills for teaching this subject matter;
  7. to teach the knowledge and skills needed to develop instructional plans, strategies and assessments basic to meeting individual needs of students that may be evident in cultural diversity, values clarification and mental and physical exceptionailities;
  8. to achieve knowledge for the effective use of various classroom management systems such as counseling, congruent communication, assertive discipline, reality therapy, etc. To develop the belief that there is a strong relationship between classroom management practices and teaching effectiveness;
  9. to make available experiences in the integration and application of instructional technology in education, including the use of microcomputers, laserdisks and interactive video, CD-ROM and multimedia, information technology and networks, presentation hardware and software, VHS and film media in instruction, assessment, research and professional productivity;
  10. to provide the knowledge and skills necessary to organize and manage an effective school environment. These will help in the management of instructional experiences, the instructional materials and all other physical properties related to learning;
  11. to develop competency in the assessment of developmental and behavioral problems. The assessment competencies shall include instrumentation, administration and interpretation. Interpretative skills shall include the use of assessments in educational planning;
  12. to provide the knowledge and skills required for reporting to, and working with, parents and parental support. The reporting to parents shall involve accurate and effective communication, both in writing and orally, concerning the needs and progress of students. In addition, to provide the knowledge and skills required to make referrals to community support systems and services for students needing intervention beyond the regular classroom instruction;
  13. to provide practical experiences that accurately reflect those that occur in typical classroom settings. These experiences will provide opportunities to interact with the learner in the learning environment. The learning environment will be rich in opportunities to observe practices, methods and techniques as they are applied to learning and the learner;
  14. to develop plans for continuous professional growth and development which includes self evaluation, performance based teacher evaluation and other forms of peer evaluation. Opportunities and experiences for the personal development of high ethical standards will be provided.
- Admission to the Teacher Education Program**
- Applications for admission to the Teacher Education Program may be filed with the Dean of the School of Education when the student has successfully completed 55 semester hours of prescribed course work. The deadline for application is the third week in February for those seeking admission in the subsequent fall semester. The deadline for application for those seeking admission in the spring semester is the third week in October.
- Students must be tentatively admitted before courses can be taken in professional education. These courses are identified by the Educ prefix numbers as 300 or above. Qualifications for tentative admission include the following:
1. Submit a completed application that is signed by the student's adviser.
  2. Have a cumulative GPA of 2.75 in all course work. All students in education must maintain a cumulative GPA of 2.5 in their teaching areas, e.g., art, mathematics, elementary education, etc.
  3. Pass all sections of the Missouri C-Base Test. (This test is not required of post baccalaureates.)
  4. Have a composite ACT enhanced score of 20 or a SAT(VM) of 800.
  5. Submit a hand-written autobiography in correct and coherent standard English. The autobiography must be read and approved by the student's adviser.
  6. Submit a passing evaluation in speech from the communications department.
  7. Convicted felons must identify themselves by so indicating on the application for admission form. Upon identification the student will need to make certain documents and information available to the Admissions and Retention Committee of the Teacher Education Program, i.e., conviction status, probation information, recommendations from court and public officials associated with the conviction. This process must be repeated when application is made for student teaching. There is a process that convicted felons must follow before consideration is given for certification in the State of Missouri. Failure to identify oneself will cause the student to be removed from the program at once.

Students who are tentatively admitted to the teacher education program will receive notification from the Dean. Students who fail to gain tentative admission also will be notified by the Dean. Reasons for failure to gain admission will be stated, along with suggested corrective measures should the student wish to continue pursuing admission.

Full admission is granted when the student successfully completes Educ 329, Pedagogical Theory, Methods and Practices, Educ 321, Micro Teaching and Educ 423, Classroom Management. The student must be recommended by the instructors of these courses. The student must maintain a cumulative GPA of 2.75. If at any point in the program a student's GPA drops below accepted levels, the student will be dropped from the teacher education program.

Grades below a "C" in professional education courses will not be accepted for the degree requirements in teacher education. Students seeking certification in elementary education, middle school, secondary education, special education and early childhood education must have a grade of "C" or better in each of the courses in these certification areas.

Students qualifying for full admission to the program will be notified in writing by the Dean. The date of admission will be entered on the student's record by the Registrar. Unsuccessful students will also be notified and corrective measures suggested.

Applications for admission must be completed and on file in the office of the Dean of the School of Education and Psychology by Friday of the third week in October for the first semester and by Friday of the third week in February for the second semester.

## Admission to Student Teaching

Between the course on Pedagogical Theory, Methods and Practices (Educ 329) and the professional semester, the student takes approximately 26 or more hours of work in professional education and in a teaching specialty. During this time the student must maintain a cumulative GPA of 2.75 or better and a GPA of 2.5 or better in the teaching specialty. The student must make a "C" or better in all professional education courses. The student must retake courses in which a grade lower than "C" is received. The student is expected to maintain those personal and professional requirements that were met as part of the admission requirements to teacher education. The requirements that must be met prior to admission to student teaching are:

1. Be fully admitted to the teacher education program.
2. Have a cumulative GPA of 2.75.
3. Have a cumulative GPA of 2.5 in teaching specialty area.
4. Have all previous course work completed at the time of student teaching.
5. Have a completed application for student teaching on file.
6. Have a grade of "C" or better in each professional education course.
7. Have an approved typewritten autobiography on file. The autobiography must consist of two or more paragraphs.
8. Convicted felons must complete the form provided upon applying for admission to student teaching.

The student teaching program is intended for students who have met all of the requirements for student teaching at Missouri Southern State College. Students from other institutions who have, with the exception of student teaching, completed the teacher education program at those institutions and who were awarded baccalaureate degrees, must complete the equivalent of the professional semester at Missouri Southern. They must be in good standing at their previous institution. The Dean of the School of Education and Psychology will develop a course plan for those who wish to complete Missouri certification requirements by taking student teaching at Missouri Southern.

## Graduation Requirements

In order to graduate from the Teacher Education Program, the student must successfully complete the following exit requirements, in addition to all other academic requirements of the College:

1. Submit 5 pieces of the student's best work in the teacher education program for faculty authentic assessment review.
2. Pass all minimal competencies required of teacher education students.
3. Pass the Professional Knowledge Test of the National Teachers Exam.
4. Pass the Teaching Specialty Exam of the National Teachers Examination.
5. Successfully complete student teaching.
6. Have a cumulative GPA of 2.75 or higher.
7. Have a cumulative GPA of 2.5 or higher in the teaching specialty area.
8. As part of the authentic assessment procedures, each student must have a successful exit interview.

## Advisement

Freshmen with declared majors in teacher education will have an adviser assigned as part of Educ 100 Orientation to Education I. Sophomores declaring a major in teacher education will be assigned advisers in Educ 200 Orientation to Education II. It is strongly recommended that all education majors have advisers in their teaching specialty area. This is because of the many specific course requirements and entrance and exit requirements for teacher education.

Courses with an EDUC prefix cannot be taken until the Junior Block has been completed. Exceptions: Educ 100, Educ 200, Educ 302, and Educ 402 may be taken

anytime. Educ 316, Educ 324, and Educ 342 may be taken with the Junior Block classes or after.

Post-graduates not holding a Missouri teaching certificate and seeking Missouri certification must be advised in the specialty department of their intended teaching area. These students must meet all departmental requirements for certification.

Post-graduates holding Missouri certificates must have the Missouri State Department of Elementary and Secondary Education (DESE) evaluate their transcripts and make recommendations for course work that will lead to certification. After a plan sheet is received by the student, the requirements specified by DESE may be translated into MSSC courses by the Assistant Certification Officer in the Office of the Dean.

## Education

Taylor Hall 232, 625-9309

**Faculty** Sandrin - Head, Banks, McConnell, Overdeer, C. Pulliam, D. Pulliam, Smith, Spencer, Vieitez

## Program Objectives

Objectives for all programs in teacher education can be found in the Teacher Education Program Policy Handbook For Faculty and in the Teacher Education Program Policy Handbook For Students. Objectives for the student teaching program can be found in the Policy Handbook For Student Teachers, Cooperating Teachers, and College Supervisors.

## General Information

Students who select education as a major may choose to become qualified in elementary education grades 1-6, early childhood education grades preschool-3, special education grades K-12, middle school education grades 5-9, or secondary education grades 9-12. In addition to these areas of study, a student may work toward certification in reading education grades K-12 by completing all of the reading certification requirements except two years of teaching experience. The student who completes this program and completes two years of teaching experience may apply to the Department of Elementary and Secondary Education for the reading certificate.

Students who complete the requirements in early childhood education, special education, and reading education will, upon the completion of their programs, be qualified to teach in elementary grades 1 through 6 as well.

Students who complete the middle school program from an elementary school program will be certified to teach in grades 1 through 6 as well as middle school grades 5-9. Students who complete the middle school program from a secondary school program will be certified to teach in the area of their secondary specialization and in middle school grades 5 through 9. The secondary specializations that may be used for middle school certification are listed below. Other approved secondary teaching specializations may be used as endorsements to these four major areas. Education majors who elect the middle school program (from both elementary and secondary programs) must select their middle school teaching specialty from four major areas:

- Language Arts
- Mathematics
- Science
- Social Science

For more specific information see the section on the middle school.

### **Area of Concentration**

Students who elect elementary education grades 1 through 6 as their teaching area must complete an area of concentration consisting of a minimum of 21 hours. This requirement may be met in one of two ways as follows:

**Option 1:** A collection of 21 hours of approved courses in an area of study such as English, mathematics, science, social studies, music, theatre, etc.

**Option 2:** A certification endorsement in an area of study such as early childhood special education, or middle school. A course of study for these certification is available in the Education office.

### **Psychology Requirements**

Elementary education students grades 1 through 6 and early childhood students grades preschool through 3 must take Psy 100, General Psychology; Psy 300, Child Development; and Psy 310, Educational Psychology.

Middle school students grades 5 through 9, special education students PK through 12, music education students grades PK through 12 and grades PK through 9, art education students grades PK through 9 and grades PK through 12, physical education students grades PK through 12 and grades PK through 9, Spanish education students grades PK

through 12 and reading education students grades PK through 12 must take Psy 100, General Psychology; Psy 305, Developmental Psychology; and Psy 310, Educational Psychology.

Secondary education students in biology education, business education, chemistry education, English education, mathematics education, physical education, physics education, social studies must take Psy 100, General Psychology; Psy 301, Adolescent Psychology; and Psy 310, Educational Psychology.

### **Minor in Education**

An academic minor has been created in teacher education for the B.A. and B.S. student considering a career in education at some future time. This minor is not developed to meet certification requirements, but to provide the students with an adequate background in professional education for career decision making and as a foundation for the remaining certification requirements.

### **Minor in Education (Elementary and Secondary)**

The student must meet admission requirements to the teacher education program. See page 36 for admission requirements.

Semester Hours

Educ 302	The Exceptional Child	2
Educ 329	Ped Theory, Methods & Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
<i>Pass Media Requirements</i>		
Educ 401	Computer Software in the Classroom	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 342	Intro to Dev Reading (3) OR	
Educ 422	Reading in the Secondary Schools (2)	3-2
Educ 412	Middle School/Jr Hi Philosophy, Organization and Curriculum	2

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### **Bachelor of Science in Education (B.S.E.)**

Students majoring in elementary education, elementary education/special education, physical education, and secondary education and who successfully complete the requirements for this degree will be recommended for the Professional Certificate-I teaching certification. This is a probationary certificate that is granted for three years. Additional certification is granted by the

Missouri Department of Elementary and Secondary Education. Recipients of other degrees who wish to be certified in the State of Missouri must meet all of the requirements that are set forth in this catalog for the B.S.E. degree. All of the teacher education programs have been approved by the Missouri State Department of Elementary and Secondary Education and by the National Council for Accreditation of Teacher Education. All programs are designed to exceed minimal requirements for certification.

### **Bachelor of Science in Education**

#### **Elementary Education**

#### **Core Requirements (p. 41)**

48

#### **Exceptions to the Core Requirements:**

#### **Physical Education Requirements**

All teacher education students must meet the Core Curriculum requirements with the exception of elementary education students who have elected a teaching specialization beyond the elementary requirements, e.g., early childhood education, special education, reading education, etc. These students are not required to take HPER 101 Activities and HPER 103 Lifetime Wellness. In the place of these two courses, elementary education students are required to take HPER 370 School Health Education and HPER 311 Physical Education for the Elementary School.

#### **Requirements for Elementary Education**

#### **Core Education Requirements 65-66**

HPER 370	School Health	3
Geog 211	Geography	3
Math 120	Math Elem Teacher II	3
Eng 325	Children's Literature	3
Art 220	Art Education	2
Mus 332	Music for Elem School	2
Educ 302	Exceptional Child	2
Psy 100	General Psychology	3
<i>AND</i>		
Psy 300	Child Development	3
Psy 310	Educational Psychology	2
HPER 311	PE for the Elem School	2
Educ 401	Computer Software in the Classroom	2

Students must be tentatively admitted to teacher education prior to taking the following courses (see admission requirements):

Educ 329	Ped Theory, Methods & Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2

#### **Pass Media Competencies**

In order to take the remaining courses, the student must be fully admitted to the teacher education program:

Educ 311	Science in the Elementary School	2
Educ 312	Problems of Teaching Arith in Elem School	3

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Educ 340	Language Arts	2	
Educ 342	Intro Dev Reading	3	
Educ 343	Teaching Reading Middle School	3	
Educ 470	Diagnostic and Remedial Reading	3	
	<b>Professional Semester Courses</b>		
Educ 402	Foundations of Educ	2	
Educ 432	Critical Issues	2	
Educ 322	Teaching Social Studies Elem School	2	
Select two from the following:			
Educ 412	Middle School, Junior High, Philosophy, Organization and Curriculum	2	
Educ 420	Intro Counseling	3	
Psy 412	Measurement & Evaluation	2	
Other requirements: All courses must be completed prior to student teaching.			
Educ 442	Student Teaching	8	
Meet all exit requirements (see graduation requirements).			
<b>Area of Concentration</b>		<b>21</b>	

## Suggested Order of Study

### Bachelor of Science in Education Elementary

#### Freshman Year

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchr I]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
		<b>14</b>

#### 2nd Semester

CORE	[Math 120 Math Elem Tchr II]	3
CORE	[Eng 102 Comp II (Eng 101)]	3
CORE	[Comm 100 Oral Comm]*	
CORE	[Hist 110 U.S.1492-1877]	3
CORE	[Literature]	3
		<b>15</b>

#### Sophomore Year

Course		Hours
Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
CORE	[Hist 120 U.S. 1877-present]	3
(To meet state certification requirements the student in all elementary supported fields must take either Music or Art Appreciation as a first choice and then can select from B, Area 2. Humanities and Fine Arts and from C of Area 2 page 41.)		
CORE	[Art 110 Art Apprec] (3)	
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[IPSc 120 Gov't: U.S./Sta/Local]	3
Psy 300	Child Development	3
		<b>17</b>

2nd Semester  
*Take C-Base Test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.*

CORE	Fine Art from Area 2C	3
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem. School***	2
CORE	[Phys 101]	5
Mus 332	Music for Elem School	2
Educ 401	Comp Software Clsmr**	2
		<b>17</b>

#### Junior Year

Course		Hours
1st Semester		
Pass Media Competencies.		
Student must be tentatively admitted to the Teacher Education Program before any course from the junior block forward with an "Educ" prefix can be taken.		
Educ 329	Ped Theory Methods & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 342	Intro to Dev Reading	3
HPER 370	School Health Educ.***	3
Educ 302	The Exceptional Child	2
Psy 310	Educational Psy	2
		<b>18</b>

#### 2nd Semester

*Must be fully admitted to the Teacher Education Program. (Media competencies must be met or the student will be denied full admission and denied continuation in the program.)*

Course		Hours
Area of Concentration		
Geog 211	Regions and Nations	3
Educ 343	Rdg in the Mid School	3
Educ 340	Language Arts	2
Educ 312	Prob of Tchng Arith	3
		<b>14</b>

#### Senior Year

Course		Hours
1st Semester		
Eng 325	Children's Literature	3
Educ 470	Diag & Remdl Reading (may be taken with Educ 343)	3
Art 220	Art Education	2
Educ 311	Tchng Sci Elel	2
		<b>10</b>

#### 2nd Semester

Course		Hours
Educ 322	Tchng Soc Stu Elel Sch	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Select Two		4-5
Educ 317	Curr in Erly Chldhd**** (3)	
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr (2)	
Educ 420	Intro to Counseling+ (3)	
Psy 412	Measurement and Eval (2)	
Educ 442	Student Teaching	8
		<b>18-19</b>

(Prerequisites)

[Department Recommendations]

\*Student must have speech evaluation filed in the Dean's office.

\*\*This is the computer literacy requirement and must be taken by all teacher education students except those students who meet their computer literacy requirement in their teaching specialty.

\*\*\*Meets the core requirements in Physical Education.

\*\*\*\*Is required for all early childhood certification students.

+Must be taken before student teaching.

### Bachelor of Science in Education Early Childhood Education Grades Preschool-3

#### Freshman Year

Course		Hours
1st Semester		
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchr I]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
Educ 100	Orientation to Educ I	1
		<b>14</b>

#### 2nd Semester

Course		Hours
CORE	[Math 120 Math Elem Tchr II]	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]*	
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Gov't: U.S./Sta/Local]	3
		<b>18</b>

#### Sophomore Year

Course		Hours
1st Semester		
Hist 120	U.S. Hist 1877-present	3
CORE	Bio 101 General Biology	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Geog 211	Regions and Nations	3
Educ 200	Orientation to Educ II	1
		<b>17</b>

#### 2nd Semester

Course		Hours
Take the C-Base Test. Apply for admission to the Teacher Education Program. If ACT composite is less than 20, student should retake the ACT.		
Art 220	Art Education	2
Educ 401	Computer Software	2
Psy 300	Child Development	3
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem School	2
CORE	[Phys 101]	5
		<b>17</b>

#### Junior Year

Course		Hours
1st Semester		
Pass media competencies.		
Students must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401)		
Educ 329	Ped Theo Methods & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 302	Exceptional Child	2
HPER 370	School Health Educ	3
Educ 316	Found,Iss,Trnd ECE*	2
		<b>17</b>

#### 2nd Semester

Course		Hours
Students must be fully admitted to the Teacher Education Program.		
Educ 342	Intro to Dev Reading	3
Eng 325	Children's Literature	3
Educ 340	Language Arts	2
Educ 312	Prob of Tchng Arith	3
Educ 311	Teaching Science Elel	2
Educ 317	Curriculum - ECE*	3
Educ 323	Util Fm Comm Res*	2
		<b>18</b>

**Senior Year**

1st Semester		
Educ 343 Tchng Rdg in Mid Sch	3	
Educ 470 Diag & Remedial Rdg (may be taken with Educ 343)	3	
Educ 318 Meth & Materials ECE*	3	
Educ 319 Prac Meth & Mat*	2	
Educ 408 Assess & Prac.*	5	
	<b>16</b>	
2nd Semester		
Psy 310 Educational Psychology	2	
Educ 409 Topic in ECE:Lang Devl*	2	
HPER 340 Motor Learning*	3	
Educ 420 Intro to Counseling	3	
Educ 322 Tchg Soc St Elem	2	
Mus 332 Mus Elem School	2	
	<b>14</b>	
3rd Semester		
Educ 402 Foundations of Educ	2	
Educ 432 Critical Issues in Educ	2	
Educ 444 Student Teaching - ECE*	8	
<b>Total Elementary/ECE Program</b>	<b>12</b>	
(Prerequisites) [Department Recommendations]		

\*Courses specific to the Early Childhood Area of Emphasis.

**Area of Emphasis total semester hours=23.**

**2nd Semester**

Math 120	Math for Elem Teachers II	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	
OR		
CORE	[Comm 131 Voice & Diction]	3
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Gov't: U.S./St/Loc]	3

**2nd Semester**

Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 442	Student Teaching	8
Select one from the following:		
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	
Psy 412	Measurement & Eval	2

**14**

**Area of emphasis total semester hours:**

**Option I = 22**

**Option II = 32**

**Reading (Remedial) - Option II**

Students must complete all of the above courses as well as the following in order to be certified in Remedial Reading.

Educ 430	Language Development	3
Educ 350	Corrective Reading	2
Educ 422	Rdg in Content Area	2

**7**

In order to be certified in Remedial Reading the applicant must complete two years of teaching experience.

(Prerequisites)

[Department Recommendations]

\*Course specific to the area of Reading emphasis.

\*\*Students may opt to enroll in one/two of the six week classes listed under second semester in order to even out semester load.

\*\*\*Must be taken prior to student teaching semester.

**Total hours: Option I = 130/131  
Option II = 140**

**Junior Year**
**1st Semester**

*Pass media competencies.*

*Students must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401)*

Educ 329	Ped Theo, Methods & Pract	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 302	Exceptional Child	2
Educ 342	Intro Dev. Reading	3
HPER 370	School Health Educ	3
Psy 310	Educational Psychology	2

**18**

**2nd Semester**

*Students must be fully admitted to the Teacher Education Program.*

Educ 474	Educ & Psy Testing*	3
Mus 332	Mus Elem School	2
Educ 343	Rdg in the Mid School	3
Educ 470	Diag & Rmdl Rdg	3
Educ 340	Language Arts	2
Educ 312	Problems of Teaching Arith	3

**16**

**Bachelor of Science in Education-Elementary Education/Reading Education Grades K-12 Certification**

Students who wish to certify in reading education should follow the order of study below. When students complete the sequence of courses satisfactorily, and upon completion of two years of teaching experience, they may certify as reading specialists in the State of Missouri. Advisers should pay particular attention to the sequence of courses. For example, a student must take Educ 342 before taking Educ 343. Educ 343 may be taken with Educ 470.

Learning Disabilities  
Mentally Handicapped  
Behavior Disordered

Students who pursue these programs must carefully follow the orders of study for these fields.

Beginning with the first semester of the junior year, students may begin taking the required courses in special education. The first course in a sequence of courses that may be taken is Educ 324, Introduction to Special Education, 3 hrs. This courses introduces the three certification areas in special education offered at MSSC. This course must be taken before any of the methods courses in special education can be taken. After this course is successfully completed, the student may take any of the three methods courses. After successfully completing a methods course, the student may do the

**Suggested Order of Study**
**Reading (Options I and II)**
**Freshman Year**

1st Semester		
Course	Hours	
Psy 100 General Psychology	3	
CORE [Eng 101 Comp I]	3	
CORE [Math 111 Math Elem Tchrs I]	3	
CORE [Econ 180 Amer Econ Sys]	3	
Psy 120 College Orientation	1	
Educ 100 Orientation to Educ I	1	
	<b>14</b>	

**Senior Year**
**1st Semester**

Eng 325	Children's Literature	3
Educ 322	Tching Soc Stu in Elem Sch	2
Art 220	Art Education	2
Educ 311	Teaching Science Elem	2
Educ 471	Pract in Diag Rdg Diff	3
Educ 472	Pract in Rem of Rdg	3
Educ 420	Intro to Counseling*	3

**18**

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practicum in the same field as the methods course. Students may not take the methods course and the practicum course at the same time. A student may not take the introductory course and a methods course at the same time. Other courses that are required for special education may be taken according to the suggested order of study below for each of the three certification fields.

Student teaching for special education students consists of a full ten week experience in the field chosen by the student. Students who choose to student teach in LD, must meet all course requirements for LD, qualify for admission to student teaching, and then do ten weeks student teaching in LD. Students must have a student teaching experience in each of the fields in which they wish to certify.

## Suggested Order of Study

### Bachelor of Science in Education Elementary Education/Special Education: Learning Disabilities Grades K-12 Certification

#### Freshman Year

Course		Hours
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchrs I]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
Educ 100	Orientation to Educ I	1
		14

#### 2nd Semester

Math 120	Math Elem Teachers II	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Govt: U.S./Sta/Loc]	3
		18

#### Sophomore Year

1st Semester		
Hist 120	U.S. Hist 1865-present	3
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Psy 305	Developmental Psy	4
Educ 200	Orientation to Educ II	1
		18

#### 2nd Semester

*Take the C-Base test. Apply for admission to the Teacher Education Program. If ACT composite is less than 20, students should retake the ACT.*

Educ 401	Computer Software	2
Geog 211	Regions & Nations	3
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem Sch	2
CORE	[Phys 101]	5
Mus 332	Music for Elem School	2
Educ 302	Exceptional Child	2
		19

#### Junior Year

##### 1st Semester

*Pass media competencies.*

*Students must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. [(Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401)]*

Educ 329	Ped Theo Methods & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Art 220	Art Education	2
HPER 370	School Health Educ	3
Psy 310	Education Psy	2
Educ 324	Intro SpEd (MH,LD,BD)*	3
		18

#### 2nd Semester

*Students must be fully admitted to the Teacher Education Program.*

Educ 474	Educ & Psy Testg SpEd*	3
Educ 342	Intro to Dev Rdg	3
Eng 325	Children's Literature	3
Educ 340	Language Arts	2
Educ 312	Problems of Tchg Arith	3
Educ 311	Tchg Sci Elem	2
Educ 404	Methods for Tchg LD*	3
		19

#### Senior Year

##### 1st Semester

Educ 446	Pract. for LD*	3
Educ 343	Teaching Reading in Mid Sch	3
Educ 470	Diag & Remedial Rdg	3
Educ 407	Diag & Psrcrvt Tchg.*	3
Educ 430	Lang Dev Except Child*	3
Educ 420	Intro to Counseling	3
		18

#### 2nd Semester

Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 322	Tchg Soci Stu in Elem Sch	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr (2)	
OR		
Psy 412	Measurement & Eval (2)	2
Educ 444	Student Teaching LD	8
		16

#### Total Hours BSE LD Emphasis = 140

(Prerequisites)

(Department Recommendations)

\*Courses specific to the LD area of emphasis.

Area emphasis total semester hours = 29

### Bachelor of Science in Education Elementary Education/Special Education: Mentally Handicapped Grades K-12 Certification

#### Freshman Year

1st Semester		Hours
Course		
Psy 100	General Psychology	3
CORE	[Eng 102 Comp I]	3
CORE	[Math 111 Math Elem Tchrs]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
Educ 100	Orientation to Educ I	1
		14

#### 2nd Semester

Math 120	Math for Elem Tchrs	3
CORE	[Eng 102 Comp I (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. 1492-1865]	3
CORE	[Literature]	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
		18

#### Sophomore Year

1st Semester		
Hist 320	U.S. Hist 1865-present	3
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Psy 305	Developmental Psy	4
Educ 200	Orientation to Educ II	1
		18

#### 2nd Semester

<i>Take the C-Base test. Apply for admission to the Teacher Education Program. If ACT composite is less than 20, students should retake the ACT.</i>		
Educ 302	Exceptional Child	2
Educ 401	Computer Software	2
Geog 211	Regions & Nations	3
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem School	2
CORE	[Phys 101]	5
Mus 332	Music for Elem School	2
		19

#### Junior Year

1st Semester		
Pass media competencies.		
<i>Students must be tentatively admitted to the Teacher Education Program before courses with an "Educ" prefix can be taken. (Exceptions: Educ 100, Educ 200, Educ 302 and Educ 401)</i>		
Educ 329	Ped Theory, Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Art 220	Art Education	2
HPER 370	School Health Educ	3
Psy 310	Educational Psychology	2
Educ 324	Intro Sp Ed (MH,LD,BD)*	3
		18

#### 2nd Semester

<i>Students must be fully admitted to the Teacher Education Program.</i>		
Educ 474	Educ & Psy Testg SpEd*	3
Educ 342	Intro to Dev Reading	3
Eng 325	Children's Literature	3
Educ 340	Language Arts	2
Educ 312	Problems of Tchg Arith	3
Educ 311	Science Elem School	2
Educ 403	Methods for Tchg MH*	3
		19

<b>Senior Year</b>		
1st Semester		
Educ 446	Prac for MH*	3
Educ 343	Tching Rdng in Mid Sch	3
Educ 470	Diag & Remedial Rdg	3
Educ 407	Diag & Prscrptv Tchg.*	3
Educ 430	Lang Dev. Except Child*	3
Educ 420	Intro to Counseling	3
		<b>18</b>
2nd Semester		
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 322	Tchg Soc Stu in Elem Sch	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr OR	
Psy 412	Measurement & Eval	2
Educ 444	Student Teaching BD*	8
		<b>16</b>
<b>Total Hours BSE MH Emphasis = 140</b>		

(Prerequisites)

[Department Recommendations]

\*Courses specific to the MH area of emphasis.

**Area of emphasis total semester hours = 29.**

\*\*Must be taken before student teaching semester.

<b>Junior Year</b>		
1st Semester		
	Pass media competencies.	
	Qualify for full admission to Teacher Education Program.	
Educ 329	Ped Thry, Mthds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Art 220	Art Education	2
HPER 370	School Health	3
Psy 310	Educational Psy	2
Educ 324	Intro Sped (MH,LD,BD)*	3
		<b>20</b>
2nd Semester		
Educ 474	Educ & Psy Testng SpEd*	3
Educ 342	Intro Dev Reading	3
Eng 325	Children's Literature	3
Educ 340	Lang Arts Elemt	2
Educ 312	Problms Tchg Arith	3
Educ 311	Science Elemt School	2
Educ 405	Mthds for Tchg BD*	3
		<b>19</b>

<b>Senior Year</b>		
1st Semester		
Educ 446	Prac for BD	3
Educ 343	Readg Mid Schl	3
Educ 470	Diag & Rndl Rdg.	3
Educ 420	Intro Counseling**	3
Educ 407	Diag & Prscrptv Tch*	3
Educ 430	Lang Dev Except Child*	3
		<b>18</b>
2nd Semester		
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Tchg Soc Stds Elemt	2
Educ 412	Mid Sch-Jr H-Phil-Org-Curr OR	
Psy 412	Measurement & Eval	2
Educ 444	Std Tch BD (10 wks)*	8
		<b>16</b>

<b>Total Hours BSE BD Emphasis = 140</b>		
(Prerequisites)		
[Department Recommendations]		
*Courses specific to the BD area of emphasis.		
<b>Area of emphasis total semester hours = 29</b>		
**Must be taken before student teaching semester.		

## Bachelor of Science in Education Elementary Education/ Special Education Behavior Disordered

<b>Freshman Year</b>		
1st Semester		
Course		Hours
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math for Elemt Tchr]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
Educ 100	Orient to Educ I	1
		<b>14</b>
2nd Semester		
Math 120	Math for Elemt Tchr	3
CORE	[Eng 102 Comp II (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S.1492-1865]	3
CORE	[Literature Elective]	3
CORE	[PSc 120 Gov't: U.S./St/Loc]	3
		<b>18</b>

<b>Sophomore Year</b>		
1st Semester		
Hist 120	U.S. Hist 1865-Present	3
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Art 110 Art Apprec]	3
Psy 305	Developmental Psy	4
Educ 200	Orientation to Educ II	1
		<b>18</b>
2nd Semester		

Pass C-Base test.  
Apply for tentative admission to teacher education.

Educ 302	Exceptional Child	2
Educ 401	Computer Software	2
Geog 211	Regions & Nations	3
Soc 110	Sociology	3
HPER 311	PE Elemt School	2
CORE	[Phys 101]	5
Mus 332	Music for Elemt School	2
		<b>19</b>

four prescribed areas for their teaching specialty as follows: language arts, science, social studies, and mathematics. Certification for middle school will be granted by using one of the following three options:

1. A teacher may be granted certification in two of the four major areas with a minimum of 21 semester hours in each area or a total of 42 semester hours.
2. A teacher may be granted certification in one major area and one endorsement area with a minimum of 42 semester hours.
3. A teacher may be granted certification in one of the four major areas with a minimum of 30 semester hours in the subject area. Endorsement to one of these major areas include speech 5-9 and drama 5-9.

Students who wish to endorse in these areas must obtain a program of study in these areas from the Dean of the School of Education. Other endorsements that may be utilized at the middle school level are the following: art K-9, Spanish K-9, health K-9, physical education K-9, and music K-9.

A suggested order of study is recommended for each of the major areas below. It is essential for a student to take all of the courses in the suggested order of study for the major area that is chosen for a teaching area. Students selecting options one or two above must seek advisement for these two options by a middle school adviser in the education department.

**The following suggested orders of study reflect the current program. Students who will graduate before Spring 1997 should follow these plans. Students who will graduate after Spring 1997 must obtain a revised program from the Department of Education.**

### **Suggested Order of Study**

#### **Bachelor of Science in Education Elementary\Middle School Grades 5-9 -Language Arts**

##### **Freshman Year**

1st Semester		
Course		Hours
Educ 100	Orient to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elemt Tchr]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
		<b>14</b>

Students wishing to teach in the middle school grades 5 through 9 and who are pursuing elementary school certification grades 1-6 must select a major area from

# 130 / Education

## 2nd Semester

Math 120	Math for Elem Tchrs II	3
CORE	[Eng 102 Comp II (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
Hist 110	U.S. History 1492-1877	3
Eng 281/282	American Literature	3
Art 220	Art Education	2
		<b>17</b>

## Sophomore Year

1st Semester		
Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 120	U.S. History 1877-present	3
CORE	[Art 110 Art Apprec] (3)	
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Gov't: U.S./St/Loc]	3
Eng 271/272	English Literature	3
		<b>17</b>

## 2nd Semester

<i>Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, the student should retake the ACT.</i>		
Psy 305	Developmental Psych	4
Mus 322	Music Elem Schl	2
Soc 110	Intro to Sociology	3
HPER 311	Phys Educ in Elem Sch	2
Phys 100	Fund of Phys Science	5
Educ 401	Computer Software	2
		<b>18</b>

## Junior Year

1st Semester		
<i>Pass media competencies.</i>		
<i>Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.</i>		
Educ 329	Ped Theo Methds, & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
HPER 370	Sch Health Education	3
Educ 302	The Exceptional Child	2
Eng 319	Composition for Teachers	3
Psy 310	Educational Psychology	2
		<b>18</b>

## 2nd Semester

Eng 281/282	American Literature	3
Eng 301	Modern Grammar	3
Geog 211	Regions and Nations	3
Educ 340	Language Arts	2
Educ 342	Intro to Developl Rdg	3
Educ 312	Prblms in Tching Arith	3
Educ 311	Science in Elem School	2
		<b>19</b>

## Senior Year

1st Semester		
<i>Apply for student teaching.</i>		
Eng 325	Children's Literature	3
Educ 343	Tchg Rdg Middle School	3
Educ 470	Diag and Rmdl Rdg	3
Eng 400	Hist of the Eng. Lang.	3
Eng 271/272	English Literature	3
Educ 422	Rdg Secondary Schools	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Cur	2
		<b>19</b>

## 2nd Semester

Educ 332	Tchg Eng Lang Arts Scd	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Soc Studies Elem Schl	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Student Tchg Mid School	8
		<b>18-19</b>

(Prerequisites)

[Department Recommendations]

\*Must be taken before student teaching semester.

## Junior Year

### 1st Semester

Pass media competencies.		
<i>Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.</i>		
Educ 329	Ped Theo Methds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
HPER 370	Sch Health Education	3
Educ 302	The Exceptional Child	2
Bio 312	Envirmtl Biology	4
Psy 310	Educational Psychology	2
		<b>18</b>

## Summer Semester

Phys 120	Physics for Teachers	4
Educ 422	Rdg Secondary Schools	2
		<b>6</b>

## 2nd Semester

Geol 110	Intro to Geology	5
Geog 211	Regions & Nations	3
Educ 340	Language Arts	2
Educ 342	Intro to Devemntl Rdg	3
Educ 312	Prob in Tchg Arith	3
Art 220	Art Education	2
		<b>18</b>

## Senior Year

### 1st Semester

Apply for student teaching.		
<i>Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.</i>		
Educ 325	Children's Literature	3
Phys 180	Intro to Meterology	3
Educ 343	Tchg Rdg Middle School	3
Educ 470	Diag & Remedial Rdg	3
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
Educ 311	Science in Elem School	2
CORE	[Literature]	3
		<b>19</b>

## 2nd Semester

Educ 333	Tchg Science Secondary	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Soc Studies Elem Sch	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Student Tchg Midl School	8
		<b>18-19</b>

(Prerequisites)

[Department Recommendations]

\*Must be taken before student teaching semester.

## 2nd Semester

*Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.*

Psy 305	Developmental Psych	4
Mus 322	Music Elem Schl	2
Soc 110	Intro to Sociology	3
HPER 311	PE in Elem Schl	2
Phys 100	Fund of Phys Science	5
Educ 401	Computer Software	2
		<b>18</b>

*Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.*

Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Student Tchg Midl School	8
		<b>18-19</b>

## Bachelor of Science in Education

### Elementary\Middle School

### Grades 5-9 Mathematics

## Freshman Year

### 1st Semester

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 150 Calculus w/Analytl]	5
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
		<b>16</b>

**2nd Semester**

Math 250	Calculus with Analyt	5
CORE	[Eng 102 Comp I (Eng 101)]	3
CORE	[Comm 100 Oral Comm]	3
Hist 110	U.S. History 1492-1877	3
CORE	[Comp 120 Fortran]	3
		<b>17</b>

**Sophomore Year**
**1st Semester**

Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 120	U.S. History 1877-present	3
CORE	[Art 110 Art Apprec] (3)	
OR		
CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Govt: U.S./Sta/Loc]	3
CORE	[Select from Area 2B or 2C]	3
		<b>17</b>

2nd Semester  
Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.

Psy 305	Developmental Psych	4
Mus 322	Music Elem Schl	2
Soc 110	Intro to Sociology	3
HPER 311	Phys Educ in Elem Schl	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Computer Software	2
		<b>18</b>

**Junior Year**
**1st Semester**

Pass media competencies.  
Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.

Educ 329	Ped Theory, Meth, & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
HPER 370	School Health Educ	3
Educ 302	The Exceptional Child	2
Psy 310	Educational Psychology	2
Math 260	Calculus with Analyt	5
		<b>20</b>

**2nd Semester**

Math 310	Elementary Statistics (3)	
OR		
Math 361	Intro to Probability (3)	3
Geog 211	Regions & Nations	3
Educ 340	Language Arts	2
Educ 342	Intro to Developl Rdg	3
Educ 312	Prob in Tching Arith	3
Art 220	Art Education	2
		<b>19</b>

**Senior Year**
**1st Semester**

Apply for student teaching.

Math 300	Fund of Math Tho	3
Eng 325	Children's Literature	3
Educ 343	Tchg Rdg Middle School	3
Educ 470	Diag & Remedial Rdg	3
Educ 422	Rdg Secondary Schools	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
Educ 311	Science in Elem School	2
		<b>18</b>

**2nd Semester**

Educ 339	Teaching Math Scdry	2
Educ 402	Foundations of Educ	2
Educ 422	Rdg Secondary Schools	2
Educ 432	Critical Issues	2
Educ 322	Soc Studies Elem Sch	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Stu Tching Mid Sch	18

**Junior Year**
**1st Semester**

Pass media competencies.  
Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.

Educ 329	Ped Theory, Meth, & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
HPER 370	School Health Educ	3
Educ 302	The Exceptional Child	2
Psy 310	Educational Psychology	2
Hist 130	Western Civilization	3

**18**

**Bachelor of Science in Education**
**Elementary\Middle School**
**Grades 5-9 - Social Studies**
**Freshman Year**
**1st Semester**

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math Elem Tchr I]	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1

**2nd Semester**

Hist 140	Western Civilization	3
Geog 211	Regions & Nations	3
Educ 340	Language Arts	2
Educ 342	Intro to Developl Rdg	3
Educ 312	Prob in Tching Arith	3
Educ 311	Science in Elem School	2

**16**

**Senior Year**
**1st Semester**

Apply for student teaching.

Hist	Elective American History	3
Eng 325	Children's Literature	3
Educ 343	Tchg Rdg Middle School	3
Educ 470	Diag & Remedial Rdg	3
Educ 422	Rdg Secondary Schools	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
CORE	[Literature Elective]	3

**19**

**2nd Semester**

Educ 334	Tchg Soc Stu Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 322	Soc Studies Elem Schl	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Student Tchg Mid School	8

**18-19**

(Prerequisites)

[Department Recommendations]

\*Must be taken before student teaching semester.

**Bachelor of Science in Secondary Education\Middle School-Teaching Specialty**

Secondary education students who seek middle school certification may use their teaching specialty in secondary education if the teaching specialty is one of the four major areas of middle school certification, i.e., language arts, science, mathematics or social studies. If the student's specialty is not one of the four areas, the student will have to satisfy the course requirements in one of these four areas. Endorsement to one of these major areas includes the following: agriculture 5-9, home economics 5-9, industrial arts/industrial technology 5-9, speech 5-9, and drama 5-9. Students who

CORE	[Mus 110 Music Apprec] (3)	3
CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Select from Area 2B or 2C]	3
		<b>17</b>

2nd Semester		
Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.		

wish to endorse in these areas must obtain a program of study in these areas from the Dean of the School of Education. Other endorsements that may be utilized at the middle school level are the following: art PK-9, Spanish PK-9, health PK-9, physical education PK-9, and music PK-9. The suggested order of study below does not include the specialization area. If the student has a specialty in one of the four major areas, he or she can supply the specialty course from their specialty teaching area.

**The following suggested orders of study reflect the current program. Students who will graduate before Spring 1997 should follow these plans. Students who will graduate after Spring 1997 must obtain a revised program from the Department of Education.**

## Suggested Order of Study

### Bachelor of Science in Education

#### Secondary\Middle School

#### Teaching Specialty

##### Freshman Year

###### 1st Semester

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Coll Math] (or math course appropriate to area of study)	3
CORE	[Econ 180 Amer Econ Sys]	3
Psy 120	College Orientation	1
CORE	[HPER 103 Lftm Wellness]	2
		16

###### 2nd Semester

Course appropriate to teaching area	6
CORE	[Eng 102 Comp II (Eng 101)]
CORE	[Comm 100 Oral Comm]
Hist 110	U.S. History 1492-1877
CORE	[Select from Area 2B or 2C]

18

##### Sophomore Year

###### 1st Semester

Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
Hist 120	U.S. History 1877-present	3
CORE	[Select from Area 2A]	3
CORE	[PSc 120 Gov't: U.S./St/Loc]	3
CORE	[Select from Area 2B or 2C]	3

17

##### 2nd Semester

*Take C-Base test. Apply for admission to the Teacher Education Program. If ACT is less than 20, student should retake the ACT.*

Psy 305	Developmental Psych	4
Course appropriate to tchg area		6
CORE	[HPER 101 Physical Activity]	1
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Computer Software	2
		18

##### Junior Year

###### 1st Semester

*Pass media competencies*

*Student must be tentatively admitted to the Teacher Education Program prior to taking the junior block and all subsequent courses prefixed with Educ.*

Educ 329	Ped Theo Meth & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 302	The Exceptional Child	2
Courses appropriate to tchg area		6
Psy 310	Educational Psychology	2
		18

##### 2nd Semester

Educ 342	Intro to Dev Reading	3
Courses appropriate to tchg area		15
		18

##### Senior Year

###### 1st Semester

*Apply for student teaching*

Educ 343	Tchg Rdg Middle School	3
Educ 422	Rdg Secondary Schools	2
Courses appropriate to tchg area		14

19

##### 2nd Semester

Educ	Specialty Methods Course	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 412	Mid Sch-Jr Hi-Phil-Org-Curr	2
Educ 420	Intro to Counseling* (3)	
OR		
Psy 412	Meas & Eval Educ\Psy (2)	3-2
Educ 442	Student Tchng Mid School	8

18-19

##### Total hours for BSE in Secondary/Middle School Education

142-143

(Prerequisites)

[Department Recommendations]

\*Must be taken before the student teaching semester.

## Bachelor of Science in Education-Secondary Education

The curriculum for secondary education is a joint effort of each department supporting a teaching specialty area and the education department. Program development, program changes and program evaluations for secondary education are done by the Secondary Education Committee which is part of the teacher education governance structure. The work of this committee is further implemented and reviewed by the Teacher Education Council and the education department, which is the governing unit in teacher education. Departments having a teaching specialty submit recommendations

regarding specialty programs to the Secondary Education Committee. These recommendations represent the department's adherence to guidelines of learned societies, Missouri DESE guidelines, guidelines from accrediting bodies and from research and accepted practices that make up the knowledge base for secondary programs.

The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization or in two different teaching fields with a lesser degree of specialization. Specialties available for secondary school teaching are:

1. Art PK-12, PK-9
2. Biology 9-12
3. Chemistry 9-12
4. Business Education 9-12
5. English 9-12
6. Mathematics 9-12
7. Music PK-12, PK-9 (Vocal or Instrumental)
8. Physical Education PK-12, PK-9, 9-12
9. Physics 9-12
10. Social Studies 9-12
11. Spanish PK-12
12. Speech & Theatre 9-12

Along with a teaching specialty, a student may elect a supporting area (a minor) from any one of the above listed teaching specialties.

## Plan A: (Double Major)

Plan A is intended for those who desire to qualify as teachers in two different subject matter areas. Each area requires a minimum of 30 semester hours of specific course work which must meet minimum Missouri State Department of Elementary and Secondary Education requirements. Plan A is not available in social science, music, art, biology, chemistry, physics, Spanish or in programs preparing teachers for both elementary and secondary education. If Plan A is selected, the second teaching field is required. Students may select an adviser in either department chosen as a major or from the department of education.

## Plan B: (Single Teaching Field, Comprehensive Major)

Plan B is intended for persons who wish to concentrate teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by department.

## The Teaching Specialty for Secondary Education

Secondary education students study a teaching specialty in one of the following fields (Plan B) or two of the following fields (Plan A):

- art education PK-12, PK-9
- biology education 9-12
- business education 9-12
- chemistry education 9-12
- English education 9-12
- mathematics education 9-12
- music education PK-12, PK-9
- physical education PK-12, PK-9, 9-12
- physics education 9-12
- social studies education 9-12
- Spanish education PK-12
- speech and theatre education 9-12

Students in secondary education must meet the same core requirements as all MSSC students. Depending on the teaching specialty, these students will differ in the order in which they take the Core Curriculum requirements. Each specialty area has a sequence of course requirements that may extend from the first semester of the first year to the first semester of the fourth year.

All students in teacher education must be tentatively admitted to teacher education prior to taking professional education courses. The admission point for teacher education is in the second semester of the sophomore year.

Preparation for admission by the student can begin at any time. The student's ACT score can be entered into the data base. If the ACT score is lower than 20, the test can be retaken anytime prior to applying for tentative admission.

The C-Base should be taken the first semester of the sophomore year.

All students who enter Southern as freshmen are encouraged to take Educ 100, Orientation to Education I during their freshman year and Educ 200, Orientation to Education II during their sophomore year. Secondary students who transfer into MSSC at the admission point into the Teacher Education Program are not required to take these two courses.

For specific content courses for the teaching specialty, students should refer to the catalog.

### Suggested Order of Study

#### Bachelor of Science in Education Secondary\Teaching Specialization

##### Freshman Year

###### 1st Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Course		Hours
Educ 100	Orient to Education I	1
Psy 100	General Psychology	3

###### 2nd Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

##### Sophomore Year

###### 1st Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Educ 200	Orient to Education II	1
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###### 2nd Semester

Follow teaching specialty department recommendations for core courses and teaching specialty courses.

Educ 401	Computer Software	2
Psy 301	Adolescent Psychology (3)	

OR

Psy 305	Devemntl Psychology* (4)	3-4
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*Pass C-Base test for admission.*

Verify that ACT score is 20+, Have a 2.5 GPA in the teaching specialty area and a 2.75 cummulative GPA. Get faculty recommendation, write autobiography, and file admission papers for tentative admission.

##### Junior Year

###### 1st Semester

*Pass media competencies.*

Educ 329	Ped Thry, Mthds & Prac	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Educ 302	Exceptional Child	2
Psy 310	Educational Psychology	2

Follow departmental recommendations for teaching specialty courses. If recommended by Junior Block instructors and by the teacher education faculty, receive full admission to teacher education.

###### 2nd Semester

Follow departmental recommendations for teaching specialty courses.

##### Senior Year

###### 1st Semester

Follow departmental recommendations for teaching specialty courses.

*Apply for student teaching.*

Educ 420	Intro to Counseling	3
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##### 2nd Semester

Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ	Tchng Specialty Meth Course2	
Educ 422	Teaching Reading Secondary 2	
Educ 462	Student Teaching Secondary 8	
Select one:	2-3	
Educ 412	Mid Sch-Jr Hi-Sch Org -Curr** (2)	
Psy 412	Test and Measurements (2)	
Educ 420	Intro to Counseling (3) (see senior year first semester)	

(Prerequisites)

[Department Recommendations]

\*Psy 305 required for all PK-12, PK-9 and 5-9 programs.

\*\* Required for all middle school teaching specialty students.

For additional information contact:  
Education Department  
Office: Taylor Hall 237  
Phone: 625-9308

### Course Descriptions

Educ 010 (F, S)

2 hrs. cr.

#### Techniques of Reading

Designed to improve and enhance reading skills. Vocabulary, comprehension and flexibility for rate are addressed in addition to the introduction of learning strategies involved in the successful transition from high school to college level of study. Provides opportunities for improving reading and study skills as well as for developing reading enrichment.

Educ 100 (F, S)

1 hr. cr.

#### Orientation to Education I

An orientation to teacher education required of freshmen who select elementary or secondary education as their major field.

Educ 200 (F, S)

1 hr. cr.

#### Orientation to Education II

An extension of Educ 100. Classroom experiences emphasized as well as the conditions for teaching. A 15 clock hour field based component is included.

Educ 302 (F, S)

2 hrs. cr.

#### The Exceptional Child

A series of awareness experiences dealing with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community and legislation which determines school policy. Prerequisite: Psy 100.

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Educ 311 (F, S) 2 hrs. cr. <b>Science in the Elementary School</b> Designed to help students (1) comprehend the basic notion of science and how children go about learning science, (2) develop materials suitable for demonstration, discovery and inquiry lessons and (3) develop the instructional skills necessary to achieve the first two goals. Students will develop lesson plans and learning kits and will present a teaching episode. Prerequisites: Courses in biological and physical sciences and completion of Jr. Block.	Educ 321 (F, S) 2 hrs. cr. <b>Microteaching</b> A required part of Educ 329 to be taken concurrently. Short teaching episodes are prepared, taught and analyzed via videotape. The basic concern is with the demonstration of effective teaching skills.	Educ 336 (S) 2 hrs. cr. <b>Teaching Business in Secondary School</b> An introduction to the instructional planning, materials and methods of teaching business. Part of the Professional Semester.
Educ 312 (F, S) 3 hrs. cr. <b>Problems of Teaching Arithmetic in Elementary Schools</b> (See Math 312) Application of principles of learning and techniques of presentation. Techniques for diagnosis and remediation are treated as they relate to the elementary classroom. Prerequisite: 3 hrs. of math.	Educ 322 (F, S) 2 hrs. cr. <b>Teaching Social Studies in Elementary School</b> An introduction to the instructional materials and methods of teaching social studies in the elementary school.	Educ 337 (F, S) 2 hrs. cr. <b>Teaching Art in Secondary School</b> An introduction to the instructional planning, materials and methods of teaching art. Part of the Professional Semester.
Educ 316 (F - Demand) 2 hrs. cr. <b>Foundations, Issues and Trends in Early Childhood Education</b> Survey designed to acquaint the prospective teacher of young children with the historical, philosophical, psychological and social foundations of early childhood education. Designed to present current issues and trends associated with early childhood programming and consequent role expectations of prospective teachers. May be taken concurrently with the junior block courses.	Educ 323 (S - Demand) 2 hrs. cr. <b>Utilizing Family and Community Resources for the Young Child</b> Designed to acquaint the prospective teacher of young children with the needs and concerns of families rearing young children, methods of involving parents in the education of their children, and knowledge of community resources for families with young children.	Educ 338 (F, S) 2 hrs. cr. <b>Teaching Physical Education in Secondary School</b> An introduction to the instructional planning, materials and methods of teaching physical education. Part of the Professional Semester.
Educ 317 (S - Demand) 3 hrs. cr. <b>Curriculum in Early Childhood Education</b> Curriculum development in early childhood education, with special emphasis on various program models and curriculum designs currently used at the early childhood level; the formulation of developmentally appropriate goals for and curriculum content of educational programs for young children; and models of classroom management in early childhood education. Prerequisite: Educ 316.	Educ 324 (F, S) 3 hrs. cr. <b>Introduction to Special Education</b> Introduction to the three areas of special education (LD, MH, BD). This course provides the basis of understanding necessary to learn and apply the methodologies needed for each of these three areas of exceptionalities. A survey of research will be provided. Prerequisites: Educ 302, Psy 100 and Psy 305.	Educ 339 (S) 3 hrs. cr. <b>Teaching Mathematics in Secondary School</b> An introduction to the instructional planning, materials and methods of teaching mathematics. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.
Educ 318 (F - Demand) 3 hrs. cr. <b>Early Childhood Methods and Materials</b> Background in teaching strategies and materials for the young child. Fundamentals of designing developmentally appropriate small group, large group and individual learning experiences for young children; and appropriate teaching methods and materials at the early childhood level. Prerequisites: Educ 316 and Educ 317, Psy 100 or Psy 300. Must be taken concurrently with Educ 319.	Educ 329 (F, S) 4 hrs. cr. <b>Pedagogical Theory, Methods and Practices</b> Examines the theoretical basis for the decision making model of the teacher education program. Provides the methodological basis for making pedagogical decisions concerning lesson design, identification of learning styles and assessment techniques. Microteaching experiences provide an opportunity to practice methods and techniques for teaching. Thirty-two hours of junior internship in the elementary, middle, and secondary school classroom provides an opportunity to refine theory into practical applications.	Educ 340 (F, S) 2 hrs. cr. <b>Language Arts</b> Foundation course for development of understanding attitudes necessary to teach written and oral communication at the elementary level.
Educ 319 (F - Demand) 2 hrs. cr. <b>Practicum I in Early Childhood Education</b> Supervised participation in teaching on the early childhood level in the MSSC Child Development Center for a minimum of 64 clock hours. Students will design and implement small group, large group and individual learning experiences, develop appropriate materials for children's use and practice appropriate teaching strategies for young children. Prerequisites: Educ 316, Educ 317, Psy 100 and 300. Must be taken concurrently with Educ 318.	Educ 332 (S) 2 hrs. cr. <b>Teaching English and Language Arts in Secondary School</b> An introduction to the instructional materials and methods of teaching English, speech and foreign language. Part of the Professional Semester.	Educ 342 (F, S) 3 hrs. cr. <b>Introduction to Developmental Reading</b> First course in reading methods. Different approaches to teaching reading are studied and compared to individual learning styles of children. Can be taken with junior block.
Educ 333 (S) 3 hrs. cr. <b>Teaching Science in Secondary School</b> An introduction to the instructional materials and methods of teaching science. Part of the Professional Semester.	Educ 334 (S) 2 hrs. cr. <b>Teaching Social Science in Secondary School</b> An introduction to the instructional planning, materials and methods of teaching social science. Part of the Professional Semester.	Educ 343 (F, S) 3 hrs. cr. <b>Teaching Reading in the Middle School</b> Follows the introductory course in reading. Needs of the middle school age student population are addressed. Emphasis on assessing student needs, individualizing programs based on needs, reading in the content areas, study skills and recreational reading as a lifetime habit. Course can be taken concurrently with Educ 470.
Educ 335 (S) 2 hrs. cr. <b>Teaching Music in Secondary School</b> An introduction to the instructional planning, materials and methods of teaching music. Part of the Professional Semester.	Educ 344 (S) 2 hrs. cr. <b>Teaching Speech and Theatre in Secondary School</b> Techniques, methods and course content used in teaching speech and theatre. Part of the Professional Semester. Prerequisite: Admission to teacher education.	Educ 345 (S) 2 hrs. cr. <b>Teaching Foreign Language in PK-12</b> An introduction to the instructional materials and the methodology used in the teaching of foreign languages in PK-12.
Educ 350 2 hrs. cr. <b>Corrective Reading Instruction for Classroom Teachers</b> Acquaints the preservice teacher seeking certification in remedial reading, with commercially prepared informal diagnostic instruments, attitude and interest inventories, prescriptive measures, anecdotal records and strategies for corrective reading instruction within the regular classroom for children at risk. Prerequisites: Educ 342, Educ 343.		

Educ 401 (F, S) <b>Use of Computer Software in the Classroom</b> Use of microcomputers, with emphasis on evaluation, selection and uses of educational software.	2 hrs. cr.	Educ 409 (S - Demand) <b>Topics in Early Childhood Education: Language Development and Emergent Literacy</b> Designed to provide the prospective early childhood teacher with a study of current practices and research in the areas of language development of the young child and issues of emergent literacy. Requires the completion of a major paper and an oral presentation to fellow students and interested faculty based on a review of literature. Inherent in the course is a study of the development stages of young children and the constructivist theory of learning.	2 hrs. cr.	Educ 432 (F, S) <b>Critical Issues in Education</b> Exploration of current problems with special regard to legal and professional role of school personnel, their relationship to federal and state governments and to local school districts; certification, salary schedules, retirement and other benefits, professional organizations for teachers, relationship with administration, pupils, parents and the community. Prerequisite: Admission to teacher education. Offered in the Professional Semester.	2 hrs. cr.
Educ 402 (F, S) <b>Foundations of Education</b> ( <i>Writing Intensive</i> ) Historical, philosophical and sociological aspects of American education. Emphasis on philosophical approaches to education theory and practice and application of the teaching-learning theory and practice.	2 hrs. cr.	Educ 412 <b>Middle School and Junior High Philosophy, Organization and Curriculum</b> Focus is on effective teaching and learning strategies for the Middle School and Junior High students. Knowledge of teaching and curricular methods suitable to students in the Middle School and Junior High school and a comprehension of the nature of the above students both developmentally and academically are highlighted. Designed for education majors seeking middle school certification (Grades 5-9) and for others interested in curriculum and instruction. Prerequisite: Admission to teacher education.	2 hrs. cr.	Educ 435 (S) <b>Materials and Methods of Individualizing Instruction</b> Concepts, methods and materials for implementation of individual instruction. Useful for those designing learning programs for exceptional children. Prerequisites: Psy 310 and Educ 329.	3 hrs. cr.
Educ 403 (F) <b>Methods of Teaching the Mentally Handicapped</b> Designed to help the prospective or in-service teacher understand mental retardation and learn to work effectively with retarded learners. Includes appropriate curriculum, individualized program development and teaching strategies. Prerequisite: Educ 302 and Educ 324.	3 hrs. cr.	Educ 420 (F, S) <b>Introduction to Counseling</b> ( <i>Writing Intensive</i> ) Survey of interpersonal communication skills, counseling philosophies, methods, principles and practices. Designed for the classroom teacher as well as the specialist in counseling or special educator. Intended for working with both students and parents.	3 hrs. cr.	Educ 442 (F, S) <b>Student Teaching-Elementary</b> Supervised participation on the elementary level in an assigned off-campus school site. The elementary student teaching experience is based on 50 full teaching days (10 weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.	8 hrs. cr.
Educ 404 (S) <b>Methods of Teaching Children with Learning Disabilities</b> Designed for the prospective or in-service teacher of learning disabled students. Diagnosis, evaluation, programming, instructional approaches, instructional strategies and materials appropriate for use with learning disabled students. Prerequisite: Educ 302 and Educ 324.	3 hrs. cr.	Educ 422 (F, S) <b>Teaching Reading in Secondary Schools</b> ( <i>Writing Intensive</i> ) Research based and supported teaching/learning strategies utilized in effective lesson design in the content area classroom. Develops an awareness of the role of reading to content area classroom instruction. Presents strategies and materials utilized in diagnostic/prescriptive teaching.	2 hrs. cr.	Educ 444 (F, S) <b>Student Teaching-Special Education</b> Supervised teaching in a special education setting in an assigned off-campus site. Course assignments consist of 50 full teaching days (ten weeks) and require the students to demonstrate their ability to be entry-level effective decision making teachers. Arrangements for placement are to be made in the semester preceding the actual student teaching block. The student will be required to divide the 10 week experience into two segments: Five weeks at the elementary level and five weeks at secondary level. Prerequisite: Please see Requirements for Admission to Student Teaching.	8 hrs. cr.
Educ 405 (F) <b>Methods of Teaching Children with Behavioral Disorders</b> Establishes a teaching rationale utilizing a precision individualized teaching strategy which enables the emotionally disturbed learner to profit more fully from school experiences. Prerequisite: Educ 302 and Educ 324.	3 hrs. cr.	Educ 423 (F, S) <b>Classroom Management</b> Concepts, skills and models, such as behavior modification, for developing a personalized three-dimensional approach to behavior and classroom management. How to prevent discipline problems, what to do when a problem occurs and what to do to decrease the possibility of problems recurring. Approaches include behavior modification, assertive discipline, desist techniques, reality therapy and other management techniques. To be taken concurrently with Educ 329.	2 hrs. cr.	Educ 446 (F, S) <b>Practicum in Special Education</b> Clinical experience in special education settings with one of three exceptional populations: learning disabled (LD), mentally handicapped (MH) or behaviorally disordered (BD) learners. Must be preceded by the appropriate methods course for each of the three areas of exceptionality. A practicum experience is required for each of the three areas of exceptionality (LD, MH and BD). Prerequisites: Educ 302, Educ 324 and the appropriate methods course for each practicum taken, i.e., Educ 403, Educ 404 and/or Educ 405.	3 hrs. cr.
Educ 407 (S) <b>Diagnostic and Prescriptive Teaching</b> Use of formal test results to design specific level tests necessary to develop individualized educational plans (IEP's) for handicapped or nonhandicapped learners. Prerequisites: Educ 302 and Educ 324. Educ 474 is strongly recommended.	3 hrs. cr.	Educ 430 (F) <b>Language Development of Exceptional Children</b> Required for certification in special education and recommended for teachers of students focusing on early childhood education. Basic structures of language, normal sequence of language acquisition and characteristics of language disabilities. Strategies suggested for both assessing and remediating language delays or disorders.	3 hrs. cr.		
Educ 408 (F - Demand) <b>Assessment in Early Childhood</b> An in-depth study of systematic observation, testing tools and screening instruments will be provided. Supervised administration, scoring and interpretation of these assessments in early childhood education. In addition to 3 hrs. of lecture per week, students will be assigned to an early childhood setting for 4 clock hours a week to utilize systematic informal observational techniques which will culminate in a written case study report. Prerequisites: Educ 316 and 317.	5 hrs. cr.				

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Educ 462 (F, S) 4-8 hrs. cr.

## **Student Teaching-Secondary**

Supervised teaching on the secondary level in an assigned off-campus school site. The secondary school teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 464 (F, S) 8 hrs. cr.

## **Student Teaching-EL-SEC (PK-12)**

Supervised teaching on the secondary and elementary levels in assigned off-campus school sites. The PK-12 teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. The student will be required to divide the 10 week period into two segments: Five weeks at the elementary level and five weeks secondary level. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Educ 470 (F, S) 3 hrs. cr.

## **Diagnostic and Remedial Reading**

(*Writing Intensive*)

Prepares the beginning remedial reading teacher and the regular class teacher to deal with remedial reading problems. Emphasis on diagnosis of problems more clinical in nature with techniques, materials and management being stressed. Prerequisites: Educ 342, Educ 343 or may be taken concurrently with Educ 343.

Educ 471 (F) 3 hrs. cr.

## **Practicum in Diagnosis of Reading Difficulties**

Practice of administering, interpreting and reporting of diagnostic test results of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470 and Educ 474 or Psy 474.

Educ 472 (S) 3 hrs. cr.

## **Practicum in Remediation of Reading Difficulties**

Practice of using and reporting results of remedial methods in a case study of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, Educ 471.

Educ 474 (S) 3 hrs. cr.

## **Educational-Psychological Testing in Special Education**

Comprehensive study of the various psycho-educational assessment techniques for diagnosis of learning problems of exceptional children, including educational, intelligence and psychomotor. Emphasis on translating assessment data to remedial programs. (Same as Psy 474). Prerequisites: Educ 302, Psy 310.

Educ 498 (Demand) 1-3 hrs. cr.

## **Seminar in Problems of Education**

A weekly seminar for upper division majors. Credit hours determined by the department each semester. Covers specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Prerequisites: Advanced standing and consent of department head.

Educ 499 (F, S) 1-3 hrs. cr.

## **Independent Study**

Structured by the adviser with approval of department head. Prerequisites: Advanced standing in the major field and approval of adviser and department head.

It is the policy of the department of health, physical education and recreation that majors, and minors, must be ambassadors of fitness and a healthy life-style. All majors should be conscientious of, and will be assessed on cardiovascular function, muscular strength and endurance, flexibility and body composition. Students majoring in HPER are required to dress appropriately (as indicated in the class syllabus) for all classes involving physical activity. Finally, health, physical education and recreation majors will not receive endorsement for admission to the Teacher Education Program with any HPER grade lower than a "C".

The department's curricula reflect guidelines from the American Alliance for Health, Physical Education, Recreation and Dance, Missouri DESE guidelines, the NATA, the National Wellness Association, the American Red Cross, accrediting organizations and requirements from the School of Education, Psychology, and Physical Education at Missouri Southern State College.

Prospective students should note that the Missouri Coordinating Board for Higher Education is presently considering a proposed curriculum in Health Promotion and Wellness to be offered at Missouri Southern. If a student is interested in this field of study, they should contact the Physical Education Department Head.

# Physical Education

Robert E. Young Gymnasium 212,  
625-9316

**Faculty** Nelson - Head, Ballard, Beard, Conklin, Cooke, Corn, Evans, Frazier, Green, Hernandez, Hobbs, Kaifes, Lantz, Lipira, Oldham, Rutledge, Scheible, Traywick, Turner, Vavra, Wilson

The department of health, physical education and recreation offers three majors and three minors. Students who desire certification as a teacher of physical education may choose to become qualified at either the elementary level (PK-9), the secondary level (9-12), or a combination of both (PK-12). Students planning to major in one of these three fields should refer to page 124-136 where the requirements for the teacher education program are described. The departmental faculty strongly recommend that individuals majoring in physical education K-9 or 9-12 seek a minor certification in a second teaching field.

The department's minor in athletic training couples academic study with practical experience in an apprenticeship program recognized by the National Athletic Trainers Association. Students completing their 1800 hour clinical requirement have a history of high ratings on the oral, written and practical application sections of the NATA certification test. Students majoring in any teacher education program may seek a minor in coaching. The 21-hour minor provides a thorough preparation into the coaching profession. The department also offers a 22-hour non-teaching minor in physical education.

## **Bachelor of Science in Education with a major in Physical Education PK-9**

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>48</b>
<b>Physical Education Requirements</b>	<b>43</b>
Bio 306 Human Physiology and Anatomy	5
HPER 113 Wellness for Physical Educators	2
HPER 251 Lifetime Activities I	3
HPER 252 Lifetime Activities II	3
HPER 310 Theory and Tech. of Elementary Phys. Ed. I	3
HPER 312 Theory and Tech. of Elementary Phys. Ed. II	3
HPER 332 Rhythmic Form and Analysis	2
HPER 335 History and Philosophy of Phys. Ed.	2
HPER 340 Motor Learning in Physical Education	3
HPER 342 Kinesiology	3
HPER 345 Tests and Measurements in Physical Education	2
HPER 365 Socio-Psychological Aspects of Physical Education	4

HPER 370	School Health Education	3
HPER 375	Adapted Physical Education	3
HPER 431	Physiology of Exercise	2
<b>Education and Psychology Certification Requirements</b>		
<b>TOTAL</b>		<b>41</b>
		<b>132</b>

## Bachelor of Science in Education with a major in Physical Education 9-12

Semester Hours		
<b>Core Requirements (p. 41)</b>		<b>48</b>
<b>Physical Education Requirements</b>		<b>42</b>
Bio 306	Human Physiology and Anatomy	5
HPER 113	Wellness for Physical Educators	2
HPER 114	Fitness Programming and Assessment	2
HPER 251	Lifetime Activities I	3
HPER 252	Lifetime Activities II	3
HPER 255	Theory and Technique of Dance and Exercise	2
HPER 310	Theory and Technique of Elementary Phys. Ed. I	3
HPER 312	Theory and Technique of Elementary Phys. Ed. II	3
HPER 321	Theory and Technique of Secondary Phys. Ed.	3
HPER 332	Rhythmic Form and Analysis	2
HPER 335	History and Philosophy of Physical Education	2
HPER 340	Motor Learning in Physical Education	3
HPER 342	Kinesiology	3
HPER 345	Tests and Measurements in Physical Education	2
HPER 365	Socio-Psychological Aspects of Physical Education	4
HPER 375	Adapted Physical Education	3
HPER 431	Physiology of Exercise	2
HPER 450	Prevention and Care of Injuries	3
<b>Education and Psychology Certification Requirements</b>		
<b>TOTAL</b>		<b>36</b>
		<b>126*</b>

\* NOTE: Physical Education majors in the 9-12 program should understand that 128 semester hours are required for graduation. Therefore, it is advised that these students seek a certification minor in another teaching area, e.g., history, biology, etc., or a non-teaching minor, e.g., coaching, athletic training, etc.

## Bachelor of Science in Education with a Major in Physical Education PK-12

Semester Hours		
<b>Core Requirements (p. 41)</b>		<b>48</b>
<b>Physical Education Requirements</b>		<b>50</b>
Bio 306	Human Physiology and Anatomy	5
HPER 113	Wellness for Physical Educators	2
HPER 114	Fitness Programming and Assessment	2
HPER 251	Lifetime Activities I	3
HPER 252	Lifetime Activities II	3
HPER 255	Theory and Technique of Dance and Exercise	2
HPER 310	Theory and Technique of Elementary Phys. Ed. I	3
HPER 312	Theory and Technique of Elementary Phys. Ed. II	3
HPER 321	Theory and Technique of Secondary Phys. Ed.	3
HPER 332	Rhythmic Form and Analysis	2
HPER 335	History and Philosophy of Physical Education	2
HPER 340	Motor Learning in Physical Education	3
HPER 342	Kinesiology	3
HPER 345	Tests and Measurements in Physical Education	2
HPER 365	Socio-Psychological Aspects of Physical Education	4
HPER 375	Adapted Physical Education	3
HPER 431	Physiology of Exercise	2
HPER 450	Prevention and Care of Injuries	3
<b>Education and Psychology Certification Requirements</b>		
<b>TOTAL</b>		<b>37</b>
		<b>135</b>

## Minor in Athletic Training

Semester Hours		
Bio 306	Human Physiology and Anatomy	5
HPER 220	First Aid	2
HPER 342	Kinesiology	3
HPER 385	Nutrition for Human Development	3
HPER 431	Physiology of Exercise	2
HPER 450	Prevention and Care of Injuries	3
HPER 451	Advanced Athletic Training	2
<b>TOTAL</b>		<b>20</b>

## Minor in Coaching

Semester Hours		
Bio 306	Human Physiology and Anatomy	5
HPER 150	Rules and Officiating	3
HPER 342	Kinesiology	3
HPER 431	Physiology of Exercise	2
HPER 450	Prevention and Care of Injuries	3
Select a minimum of five hours from the following:		
HPER 260	Theory of Basketball	2
HPER 261	Theory of Football	2
HPER 262	Theory of Track and Field	2
HPER 263	Theory of Volleyball	1
HPER 264	Theory of Baseball	2
HPER 265	Theory of Coaching Soccer	1
<b>TOTAL</b>		<b>21</b>

## Minor in Physical Education (non-teaching minor)

Semester Hours		
Bio 306	Human Physiology and Anatomy	5
HPER 335	History and Philosophy of Physical Education	2
HPER 342	Kinesiology	3
HPER 365	Socio-Psychological Aspects of Physical Education	4
HPER 431	Physiology of Exercise	2
HPER 450	Prevention and Care of Injuries	3
Select one of the following:		
HPER 251	Lifetime Activities I	3
HPER 252	Lifetime Activities II	3
HPER 310	Theory and Technique of Elementary Phys. Ed.	3
HPER 321	Theory and Technique of Secondary Phys. Ed.	3
<b>TOTAL</b>		<b>22</b>

## Suggested Order of Study

### Bachelor of Science in Education Physical Education PK-9 Code 0820

#### Freshman Year

##### Fall Semester

Course	Hours	
Educ 100	Orientation to Education	1
Psy 120	College Orientation	1
Eng 101	College Composition I	3
Psy 100	General Psychology	3
HPER 113	Wellness for Phys Educ	2
CORE		6

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Spring Semester			Bachelor of Science in Education Physical Education 9-12 Code 0821			Bachelor of Science in Education Physical Education PK-12 Code 0822		
			Freshman Year			Freshman Year		
			Fall Semester			Fall Semester		
Course	Hours	Hours	Course	Hours	Hours	Course	Hours	Hours
Eng 102 College Composition II*	3		HPER 113 Wellness for Phys Educators	2		HPER 113 Wellness for Phys Educators	2	
Bio 101 General Biology	4		Eng 101 College Composition I	3		Eng 101 College Composition I	3	
Comm 100 Oral Communication	3		Psy 100 General Psychology	3		Educ 100 Orientation to Education I	1	
Phys 100 Fund of Physical Science	5		Psy 120 College Orientation	1		Psy 100 General Psychology	3	
CORE	3	18	Bio 101 General Biology	4		Psy 120 College Orientation	1	
			Comm 100 Oral Communication	3		Bio 101 General Biology	4	
			Educ 100 Orientation to Educ I	1	17	Comm 100 Oral Communication	3	17
<b>Sophomore Year</b>			<b>Spring Semester</b>			<b>Spring Semester</b>		
Fall Semester			HPER 114 Fitness Prog & Assessment*			HPER 114 Fitness Prog & Assessment*		
Educ 200 Orientation to Education II	1		Eng 102 College Composition II*	3		Eng 102 College Composition II*	3	
Bio 306 Human Phys & Anatomy*	5		Phys 100 Fund of Phys Sci	5		Phys 100 Fund of Phys Sci	5	
Psy 305 Developmental Psychology*	4		CORE	6		CORE	6	16
HPER 251 Lifetime Activities I*	3							
CORE	3	16						
<b>Junior Year</b>			<b>Sophomore Year</b>			<b>Sophomore Year</b>		
Fall Semester			Fall Semester			Fall Semester		
HPER 310 Theory & Tech of ElemPE I*	3		HPER 251 Lifetime Activities I*	3		HPER 251 Lifetime Activities I*	3	
HPER 340 Motor Learning in PE*	3		Educ 200 Orientation to Education II	1		Educ 200 Orientation to Educ II	1	
HPER 332 Rhythmic Form and Analysis*	2		Bio 306 Human Phys & Anatomy*	5		Bio 306 Human Phys & Anatomy*	5	
HPER 375 Adapted Physical Education*	3		Psy 310 Educational Psychology*	2		Psy 310 Educational Psychology*	2	
Psy 302 The Exceptional Child*	2		CORE	6		CORE	6	17
CORE	3	16						
<b>Spring Semester</b>			<b>Spring Semester</b>			<b>Spring Semester</b>		
HPER 342 Kinesiology*			HPER 252 Lifetime Activities II*	3		HPER 252 Lifetime Activities II*	3	
HPER 312 Theory & Tech of Elem PE II*	3		HPER 255 Theo/Tech of Dance/Exercise*	2		HPER 255 Theo/Tech of Dance/Exercise*	2	
Educ 321 Microteaching			HPER 335 Hist & Phil of PE*	2		HPER 335 Hist & Phil of PE *	2	
Educ 329 Ped Theory, Meth & Prac	4		Psy 301 Adolescent Psychology*	3		Psy 302 The Exceptional Child*	2	
Educ 423 Classroom Management	2		CORE and Minor	8		CORE	9	18
HPER 345 Tests & Measurements in PE*	2							
		16						
<b>Senior Year</b>			<b>Junior Year</b>			<b>Junior Year</b>		
Fall Semester			Fall Semester			Fall Semester		
HPER 365 Socio-Psycho Aspects of PE*	4		HPER 321 Theory & Tech of Sec PE.*	3		HPER 310 Theory & Tech of Elem PE I*	3	
HPER 370 School Health*	3		Psy 302 The Exceptional Child*	2		HPER 321 Theory & Tech of Sec PE*	3	
HPER 431 Physiology of Exercise*	2		Educ 329 Pedagogical Theory	4		HPER 332 Rhythmic Form & Analysis*	2	
Educ 342 Intro to Dev Rdg	3		Educ 321 Microteaching	2		Psy 305 Developmental Psychology*	4	
Educ 343 Reading in Middle School	3		Educ 423 Classroom Management	4		HPER 340 Motor Learning in PE*	3	
CORE	3	18	CORE and Minor	4		CORE	3	18
<b>Spring Semester</b>			<b>Spring Semester</b>			<b>Spring Semester</b>		
Educ 338 Tchng PE in Sec Schools			HPER 340 Motor Learning in PE*	3		HPER 312 Theory & Tech of Elem PE II*	3	
Educ 401 Computer Software	2		HPER 342 Kinesiology*	3		HPER 342 Kinesiology*	3	
Educ 402 Foundations of Education	2		HPER 345 Tests & Measurements in PE*	2		HPER 345 Tests & Measurements in PE*	2	
Educ 432 Critical Issues in Education	2		HPER 365 Socio-Psych Aspects of PE*	4		Educ 329 Ped Theory, Meth & Prac	4	
Educ 442 Student Teaching	8		CORE and Minor	5		Educ 321 Microteaching	2	
		16				Educ 423 Classroom Management	2	16
<b>Spring Semester</b>			<b>Spring Semester</b>			<b>Spring Semester</b>		

\* Note prerequisite(s)

Spring Semester		
Educ 338 Tchg PE in Sec School	2	
Educ 401 Computer Software	2	
Educ 402 Foundations of Education	2	
Educ 432 Critical Issues in Education	2	
Educ 464 Student Teaching	8	
	<b>16</b>	

\* Note prerequisite(s)

## Course Descriptions

HPER 100 (F)	1 hr. cr.
<b>Individual Physical Education</b>	
Adapted physical activity based on needs and ability of student. Students with certified medical disabilities may meet Core Curriculum requirement for physical education activity by completing this course.	
HPER 101 (F, S)	1 hr. cr.
<b>Introduction to Physical Activities</b>	
Fundamental skills in individual or dual physical activities. Required course for Core Curriculum. Course meets twice each week.	
HPER 103 (F, S)	2 hrs. cr.
<b>Lifetime Wellness</b>	
Contemporary information about the beneficial effects of a positive health life-style and how to implement and live such a life-style. Required course for Core Curriculum.	
HPER 113 (F)	2 hrs. cr.
<b>Wellness for Physical Educators</b>	
Contemporary information about the beneficial effects of a positive health life-style and how to implement and live such a life-style. Required for and limited to HPER majors.	
HPER 114 (S)	2 hrs. cr.
<b>Fitness Programming and Assessment</b>	
Designed to teach introductory theory and technique in exercise programming and testing. Techniques for conducting physical fitness assessments are studied. Tests of cardiorespiratory fitness, muscular strength and endurance, joint flexibility, body composition and pulmonary capacity are addressed. Prerequisite: HPER 113.	
HPER 150 (F, S)	3 hrs. cr.
<b>Rules and Officiating of Team Sports</b>	
Knowledge and skills for officiating basketball, volleyball, softball, baseball and football; officiating laboratory required in some areas. Open to all students.	
HPER 160 (F)	3 hrs. cr.
<b>Personal Health</b>	
Health problems of the individual, body mechanics, nutrition, drugs and drug abuse, sex hygiene, mental hygiene and the cause and prevention of common diseases. Not recommended for elementary education majors.	

HPER 220 (F, S)	2 hrs. cr.	HPER 265 (on demand)	1 hr. cr.
<b>First Aid</b>		<b>Theory of Coaching Soccer</b>	
Designed to complete the standard course of the American Red Cross in First Aid.		Organization and management of soccer competition. Systems of offense and defense, rules, strategy and fundamentals of soccer are studied.	
HPER 222 (F, S)	1 hr. cr.	HPER 292 (F, S)	1 hr. cr.
<b>Varsity Cheerleading</b>		<b>Fitness and Weight Training</b>	
Activities: Cheerleading practice for cheers, chants and stunts. Open only to MSSC cheerleaders; class meets twice a week.		A course aimed at developing a student's personal weight training and aerobics program. May be used to meet Core Curriculum physical activity requirement.	
HPER 251 (F)	3 hrs. cr.	HPER 295 (F)	1 hr. cr.
<b>Lifetime Activities I</b>		<b>Orientation to Health Promotion and Wellness</b>	
Study of the skills and understanding of selected lifetime activities: games, sports and recreational activities commonly found in the school physical education curriculum. Students demonstrate minimum levels of proficiency. Enrollment restricted to HPER majors. Prerequisite: HPER 114.		An orientation to health promotion and wellness. A 15 clock-hour field based component is a part of this class. Students will receive initial exposure to community and hospital health promotion and wellness programs as well as Southern's Wellness program. Limited to HPER majors. Prerequisites: HPER 114 and HPER 220.	
HPER 252 (S)	3 hrs. cr.	HPER 305 (S)	2 hrs. cr.
<b>Lifetime Activities II</b>		<b>Aging and Health</b>	
Skills and understanding of selected activities: sports, tumbling and recreational activities. Students are required to demonstrate minimum levels of proficiency. Enrollment restricted to HPER majors. Prerequisite: HPER 251.		Investigates the health status of the elderly in the United States, how the older population has changed from the past and how it may change in the future. Explore how exercise can retard some of the effects of aging. Prerequisite: HPER 103 or HPER 113.	
HPER 255 (S)	2 hrs. cr.	HPER 310 (F)	3 hrs. cr.
<b>Theory and Technique of Dance and Exercise</b>		<b>Theory and Technique of Elementary Physical Education I</b>	
Provides the prospective secondary physical education major with fundamentals necessary to teach areas of dance and exercise. Performance in the basic fundamentals of rhythms, aerobic dance, exercises and choreographing rhythmic routines are included. Prerequisite: 30 hours.		Procedures and techniques for planning the curriculum for elementary school physical education. Limited to HPER majors. Prerequisite: HPER 252.	
HPER 260 (S)	2 hrs. cr.	HPER 311 (F, S)	2 hrs. cr.
<b>Theory of Basketball</b>		<b>Physical Education for the Elementary School</b>	
Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, and problems arising during training and regular playing season.		Methods and materials needed for directing games, skills, rhythm and stunts for the elementary school child. Designed for students who are candidates for the elementary level teaching certificate. Prerequisite: 30 hours.	
HPER 261 (F)	2 hrs. cr.	HPER 312 (S)	3 hrs. cr.
<b>Theory of Football</b>		<b>Theory and Technique of Elementary Physical Education II</b>	
Attention to team play, systems of offense and defense, field strategy, discussion of the rules, training and equipment.		Analysis of basic movement patterns, basic skills, rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisite: HPER 310.	
HPER 262 (S)	2 hrs. cr.	HPER 321 (F)	3 hrs. cr.
<b>Theory of Track and Field</b>		<b>Theory and Technique of Secondary Physical Education</b>	
Organization and administration of meets, coaching, physical conditioning and training for each event in track and field programs.		Offers pedagogical considerations necessary to develop teaching methodologies relative to lesson plan construction, class organization and evaluation of students. Teaching sessions will provide the opportunity to experience a variety of teaching methods and organizational styles. Enrollment restricted to HPER majors. Prerequisite: HPER 252.	
HPER 263 (F)	1 hr. cr.	HPER 325 (F, S)	1-8 hrs. cr.
<b>Theory of Coaching Volleyball</b>		<b>Internship in Physical Therapy Procedures</b>	
Organization and management of volleyball competition. Offensive and defensive systems, rules, strategies, drills and fundamentals are studied.		Observation and participation in physical therapy procedures for patients in a medical facility. Prerequisites: one year of athletic training work, junior standing and approval of departmental committee.	
HPER 264 (F)	2 hrs. cr.		
<b>Theory of Baseball</b>			
Organization and management of a school baseball program including individual techniques, team play and problems in coaching baseball.			

# **140 / Physical Education, Psychology**

HPER 332 (F) <b>Rhythmic Form and Analysis</b> Analysis of dance forms showing how complex music and dance forms are evolved. Recommended for elementary education majors. Prerequisite: HPER 252 or permission.	2 hrs. cr.	HPER 385 (F, S) <b>Nutrition for Human Development</b> Nutrition associated with human development and performance, physiological and biochemical bases of nutrient absorption and utilization. Particular attention to evaluating and developing nutrition strategies for optimal child growth and development and exercise performance. Prerequisite: Bio 101 or Chem 100 or equivalent.	3 hrs. cr.	HPER 498 (on demand) <b>Seminar in Health or Physical Education</b> A thorough study of an advanced problem in health or physical education for selected students. Prerequisites: senior standing, permission of department head.	1-3 hrs. cr.
HPER 335 (S) <b>History and Philosophy of Physical Education</b> Changing role of physical education as indicated by its historical past and as evidenced through the influence of the various philosophies. Prerequisite: HPER 252 or current enrollment in HPER 252.	2 hrs. cr.	HPER 395 (F, S) <b>Practicum in Wellness</b> Students perform duties in the Missouri Southern State College Wellness Program. Experience will provide the student with the opportunity to apply skills and knowledge in the wellness program. Student and faculty supervisor will develop a contractual agreement for specific learning experiences in the practicum. Prerequisite: HPER 295.	2 hrs. cr.	HPER 499 (F, S) <b>Independent Study</b> Research of a problem or field study relating to physical education; material, content, credit, and schedule to be arranged by the department head. Prerequisites: senior standing, 3.0 GPA in major and permission of department head.	1-3 hrs. cr.
HPER 340 (F, S) <b>Motor Learning in Physical Education</b> Study of motor learning to provide the teacher with the background necessary for identification of physical, mental, social and emotional development of children and their effect on behavior movement. Recommended for teachers working with children with special problems. Prerequisite: HPER 310 or HPER 311 or HPER 321.	3 hrs. cr.	HPER 431 (F) <b>Physiology of Exercise</b> For students already having prerequisite knowledge of human physiology. Emphasis on human responses to varying levels of physiological conditioning and the environment within which the exercise is taken. Includes physiological principles to better understand human physiology under exercise stress. Prerequisite: Bio 306.	2 hrs. cr.	The following courses may be repeated three times: HPER 161 (F) - Varsity Football 1 hr. cr. HPER 162 (F) - Varsity Basketball 1 hr. cr. HPER 163 (F) - Varsity Volleyball 1 hr. cr. HPER 171 (F) - Varsity Cross Country 1 hr. cr. HPER 172 (S) - Varsity Track and Field 1 hr. cr. HPER 180 (S) - Varsity Golf 1 hr. cr. HPER 182 (S) - Varsity Baseball 1 hr. cr. HPER 183 (S) - Varsity Softball 1 hr. cr. HPER 191 (F) - Varsity Soccer 1 hr. cr. HPER 192 (S) - Varsity Tennis 1 hr. cr. HPER 292 (S) - Fitness & Weight Training 1 hr. cr.	
HPER 342 (S) <b>Kinesiological Approach to Movement</b> A kinesiological and mechanical approach to the structure and processes of human movement and their modification by inherent factors, by environmental events, and by therapeutic intervention. Students will develop a knowledge of human movement from a mechanical perspective. Prerequisite: Bio 306.	3 hrs. cr.	HPER 432 (F) <b>Physiology of Exercise Laboratory</b> Lab activities for students having a background in physiology. Emphasis on equipment and techniques used in the assessment of human response to exercise. Prerequisite: Bio 306.	2 hrs. cr.		
HPER 345 (S) <b>Tests and Measurements in Physical Education</b> Training in the techniques of measuring and evaluating performance. Includes preparation and administration of skill and written tests along with statistical procedures for data analysis. Prerequisite: Psy 310.	2 hrs. cr.	HPER 450 (F, S) <b>Prevention and Care of Injuries</b> Designed to provide knowledge related to prevention, care and rehabilitation of injuries. Laboratory experiences included. Prerequisite: HPER 342.	3 hrs. cr.		
HPER 365 (F, S) <b>Socio-Psychological Aspects of Physical Education</b> ( <i>Writing Intensive</i> ) Behavior exhibited in the learning of skills and physical performance related to sociological and psychological concepts connected with the demands of physical activities. Group and individual activities and conflicts in sport are analyzed; the effects of sports and physical activities on society are also studied. Prerequisite: HPER 252.	4 hrs. cr.	HPER 451 (S) <b>Advanced Athletic Training</b> A study of professional relationships, pharmacology, special problems in athletics, exercise programs and specific injuries to the upper and lower extremities. Practical learning experiences included. Prerequisite: HPER 450.	2 hrs. cr.		
HPER 370 (F, S) <b>School Health Education</b> ( <i>Writing Intensive</i> ) Study of the content, facilities and equipment needed for teaching school health and safety. Should be taken by all elementary education majors. Separate sections on health and nutrition for children. Prerequisite: 5 hours of biology.	3 hrs. cr.	HPER 470 (F) <b>Administration of Physical Education</b> Organization and management of health and physical education in schools, scheduling, personnel, curriculum, finances, equipment and facilities. Study of intramural program. Prerequisite: 20 hours of HPER.	2 hrs. cr.		
HPER 375 (F) <b>Adapted Physical Education</b> Course provides information and practices to assist professionals in designing and implementing appropriate physical education for individuals with disabilities. Prerequisite: HPER 252 or permission of instructor.	3 hrs. cr.	HPER 495 (S) <b>Internship in Wellness</b> Extensive, off-campus internship providing opportunity for students to be an integral component of a wellness or health promotion facility. Students and on-site supervisor will develop a contractual agreement that provides specific learning experiences for the internship. Prerequisites: health promotion and wellness major, application for experience at least one semester in advance, and consent of department committee.	6 hrs. cr.		

## **Psychology**

*Taylor Hall 206, 625-9315*

**Faculty** Griffin - Head, Babbitt, Junkins, McDermid, Murdock, Paige, Schellenger, Volskay

The psychology department offers two degrees: the bachelor of arts (B.A.) and the bachelor of science (B.S.). The B.A. and B.S. degrees provide an excellent foundation for students who wish to earn advanced graduate degrees in pursuit of a career in psychology. Both degrees prepare students for careers that required a broad liberal arts education at the bachelor's level.

## **Bachelor of Arts in Psychology**

Semester Hours

<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Foreign Language</b>	<b>12</b>
<b>Psychology Requirements</b>	<b>40</b>
Psy 100 General Psychology	3
Psy 305 Developmental Psychology (4)	
OR	
Psy 300 Child Development (3)	
AND	
Psy 301 Adolescent (3)	4-6
Psy 320 Applied Statistics for the Behavioral Sciences*	3

Psy 325	Computers in the Behavioral Sciences	3
Psy 330	Experimental Psychology**	5
Psy 411	Psychology of Sensation and Perception	
OR		
Psy 415	Animal Behavior	
OR		
Psy 442	Physiological Psychology	3
Psy 341	Social Psychology	
OR		
Psy 422	Theories of Personality	3
Psy 390	Junior Seminar	1
Psy 451	Learning and Memory	3
Psy 452	History and Systems of Psychology	3
Psy 481	Senior Thesis	3
Psychology Electives		6
<b>Supporting Area</b>		<b>15</b>
The supporting area requires at least 15 hours in one of the following areas: music, economics/finance, English/literature, history, journalism, law enforcement, marketing/management, military science, political science, sociology or other area approved by the adviser and the department.		
Electives (from psychology or support)	6	
Electives	7	
		<b>128</b>

\*Formerly numbered 311

\*\*Formerly numbered 312

The supporting area requires at least 15 hours of one of the following areas: biology, chemistry, computer science, mathematics, physics or other area approved by the adviser and the department.

Electives (from psychology or support)	6
Additional hours of science	9
Electives	10
	<b>128</b>

\*Formerly numbered 311

\*\*Formerly numbered 312

## Sophomore Year

1st Semester		
Psy 320	Applied Stat (Psy 100 or 110)	3
Psy 341	Social Psychology*	
OR		
Psy 411	Sensation and Perception*	
OR		
Psy 415	Animal Behavior*	3
CORE	[Core Electives]	6
Foreign Language		3
		<b>15</b>

## 2nd Semester

Psy 325	Comp in Behav Sci (Psy 320)	3
Psy 442	Physiological Psychology**	
OR		
Psy 422	Theories of Personality**	3
Supporting Area		6
CORE	[Core Elective]	3
Foreign Language		3
		<b>18</b>

## Junior Year

1st Semester		
Psy 330	Experimental Psy (Psy 325)	5
Supporting Area		3
CORE	[Core Elective]	4
Foreign Language		3
		<b>15</b>

## 2nd Semester

Psy 390	Junior Seminar**	1
Psychology Elective		3
Supporting Area		6
CORE	[Core Elective]	5
Foreign Language		3
		<b>18</b>

## Senior Year

1st Semester		
Psy 451	Learn, Mem & Cog (Psy 330)*	3
Psychology Elective		3
Elective (Psy or support area)		6
CORE	[Core Elective]	3
		<b>15</b>

## 2nd Semester

Psy 452	History & Systems (Psy 330)**	3
Psy 481	Senior Thesis	3
CORE	[Core Elective]	3
Electives		6
		<b>15</b>

\*Offered fall semester only

\*\*Offered spring semester only  
(Prerequisites)  
[Department Recommendations]

## Suggested Order of Study

### Bachelor of Arts

Major Code 2001  
**Psychology Major**

#### Freshman Year

1st Semester

Course	Hours
Psy 100 General Psychology	3
Psy 120 College Orientation	1
CORE [Eng 101 Comp I]	3
CORE [Math 110, 130 or 131]	3
CORE [Core Electives]	5
	<b>15</b>

2nd Semester

Psy 305 Developmental Psychology	4
CORE [Eng 102 Comp II (Eng 101)]	3
Bio 101 [Bio 101 General Biology]	4
CORE [Core Electives]	6
	<b>17</b>

### Bachelor of Science

Major Code 2000  
**Psychology Major**

#### Freshman Year

1st Semester

Course	Hours
Psy 100 General Psychology	3
Psy 120 College Orientation	1
CORE [Eng 101 Comp I]	3
CORE [Math 110, 130 or 131]	3
CORE [Core Electives]	5
	<b>15</b>

# 142 / Psychology

2nd Semester		
Psy 305 Developmental Psychology	4	
CORE [Eng 102 Comp II (Eng 101)]	3	
CORE [Bio 101 General Biology]	4	
CORE [Core Electives]	6	
	17	

## Sophomore Year

1st Semester		
Psy 320 Applied Statistics (Psy 100)	3	
Psy 341 Social Psychology*		
OR		
Psy 411 Sensation and Perception*		
OR		
Psy 415 Animal Behavior*	3	
CORE [Core Electives]	6	
Science	3	
	15	
2nd Semester		
Psy 325 Comp in Behav Sci (Psy 320)	3	
Psy 422 Theories of Personality**		
OR		
Psy 442 Physiological Psychology**	3	
Supporting Area	6	
CORE [Core Elective]	3	
Science	3	
	18	

## Junior Year

1st Semester		
Psy 330 Experimental Psychology (Psy 325)	5	
Supporting Area	3	
CORE [Core Electives]	4	
Science	3	
	15	
2nd Semester		
Psy 390 Junior Seminar**	1	
Psychology Elective	3	
Supporting Area	6	
CORE [Core Electives]	5	
Elective (Psy or Support Area)	3	
	18	

## Senior Year

1st Semester		
Psy 451 Learn, Mem & Cog (Psy 330)*	3	
Psychology Elective	3	
Elective (Psy or Support Area)	3	
CORE [Core Electives]	3	
Elective	3	
	15	
2nd Semester		
Psy 452 History & Systems (Psy 330)**	3	
Psy 481 Senior Thesis	3	
CORE [Core Elective]	3	
Electives	6	
	15	

\*Offered fall semester only

\*\*Offered spring semester only  
(Prerequisites)

[Department Recommendations]

## Other Requirements

Nine hours are required from math, computer science, chemistry, biology and/or physics, in addition to all other requirements. These replace the foreign language requirement.

For additional information contact:  
Dr. Betsy Q. Griffin  
Office: Taylor Hall 209  
Phone: 625-9306

Psy 221 (F) 3 hrs. cr.  
**Psychology of Personal Adjustment**  
Selected principles of adjustment, ways of improving adjustment and research of practical value. Some emphasis on assertion skills.

Psy 298 (Demand) 1 hr. cr.  
**Special Topics in Psychology**  
Special topics in psychology not normally included in other courses. Prerequisites to be determined by the department.

Psy 300 (F, S) 3 hrs. cr.  
**Child Development**  
Behavior and growth patterns of children from conception to puberty. Psychological findings are presented which are relevant to how children learn, solve problems and function in home and school environments. Prerequisite: Psy 100. No credit will be given if 305 has been completed.

Psy 301 (F, S) 3 hrs. cr.  
**Adolescent Psychology**  
Development of the attitudes, interests, problems and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy 100. No credit will be given if 305 has been completed.

Psy 302 (F, S) 2 hrs. cr.  
**The Exceptional Child**  
A series of awareness experiences which deal with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community and legislation which determines school policy. Prerequisite: Psy 300 or Psy 301.

Psy 305 (F, S) 4 hrs. cr.  
**Developmental Psychology**  
Various aspects of human development from conception, infancy, childhood, transescence to adolescence will be examined, including, physical, emotional, social and cognitive development. Emphasis will be given to theoretical frameworks and their practical implications. Cross-cultural variety will be included wherever appropriate. Prerequisites: Psy 100. No credit will be given if Psy 300 or Psy 301 have been completed.

Psy 310 (F, S) 2 hrs. cr.  
**Educational Psychology**  
Psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis on measurement, the nature of learning and the environmental influences of behavior. Prerequisite: Psy 100.

Psy 320 (F, S) 3 hrs. cr.  
**Applied Statistics for the Behavioral and Natural Sciences**  
Includes descriptive and inferential techniques. Emphasis on the analysis and interpretation of data. Prerequisites: Psy 100 and Math 110, 130 or 131.

## Course Descriptions

Psy 100 (F, S) 3 hrs. cr.  
**General Psychology**  
Introductory course stressing the importance of the psychological mechanisms underlying all human behavior. Satisfies the Core Curriculum requirement.

Psy 100 (F) 3 hrs. cr.  
**General Psychology-Honors**  
Basically the same topics as general psychology above. Designed and specially taught for honors students. Other students permitted with consent of instructor.

Psy 105 1 hr. cr.  
**Self-Awareness and Career Planning**  
Materials and methods to help students investigate their present lifestyles including concrete methods of decision making and goal setting. Concentrated career/vocational choice sessions will help students determine an appropriate career. Offered during the second half of each semester. No credit toward psychology major.

Psy 120 (F, S) 1 hr. cr.  
**College Orientation**  
A requirement for all incoming freshmen. Provides a small group setting for open communication between students in an informal situation. Content focuses on practical knowledge necessary for academic survival, adviser assignment and current issues of concern. Regular course withdrawal procedures do not apply. No credit toward psychology major.

Psy 201 1 hr. cr.  
**Psychology 201**  
Theory and methods of telephone crisis line (hotline) paraprofessional functioning: interview skills, ethics, dealing with specific types of callers and problems, resource review and procedures and rules of Joplin Crisis Intervention, Inc. One hour lecture each week. Prerequisites: Sophomore standing and psychology major, or advance permission of instructor.

Psy 202 (F, S) 1 hr. cr.  
**Psychology 202 Crisis Intervention Practicum**  
A continuation of Psy 201, Crisis Intervention. For one to three semesters, students function as Joplin Crisis Intervention paraprofessionals, attending JCI meetings, being on call on the JCI hotline, and meeting as a class twice monthly. Prerequisite: Psy 201.

Psy 325 (F, S) <b>Computers in the Behavioral Sciences</b> 3 hrs. cr.	Psy 415 (F, Odd) <b>Animal Behavior</b> 3 hrs. cr.	Psy 460 (Demand) <b>Advanced Research Projects</b> 3 hrs. cr.
Applications of computers in behavioral sciences with an emphasis on statistical analysis, data collection and report generation. Prerequisite: Psy 320.	Classic studies and current research in animal behavior from a phylogenetic and ontogenetic perspective. Includes theoretical approaches, ethological methods, ethical concerns, sensory capacities, learning, cognition, and social behavior of animals. Field observations and experimental research for each topic. Field trips are planned to supplement lectures and discussions. Prerequisites: Psy 100 and Bio 101 or permission of the instructor.	Advances the research skills in psychology beyond what is learned in Psy 330. Students will conceive, design, gather and analyze the data and write up a naturalistic observation, a survey or an experiment of their own choosing. Students will function as the sole investigator or as a member of a team. The final research project can serve as a pilot study for the students' senior thesis as well as provide a project they can present at a professional research conference. Prerequisite: Psy 330 or permission of the instructor.
Psy 330 (F, S) <b>Experimental Psychology</b> (Writing Intensive) 5 hrs. cr.	Psy 422 (S) <b>Theories of Personality</b> 3 hrs. cr.	Psy 474 (S) <b>Educational-Psychological Testing</b> 3 hrs. cr.
The research process is the foundation for knowledge in the field of psychology. Laboratory course that stresses the acquisition of basic skills in conceiving and carrying out research, as well as analyzing results and writing reports in a professionally acceptable manner. Prerequisite: Psy 325.	Survey of major contemporary theories of personality, issues of personality assessment and current research. Prerequisite: Psy 100 and junior standing.	Psy-educational assessment techniques, including educational, intellectual and psychomotor. Emphasis on translating assessment data to remedial programs.
Psy 341 (F) <b>Social Psychology</b> 3 hrs. cr.	Psy 432 (S) <b>Abnormal Psychology</b> 3 hrs. cr.	Psy 481 <b>Senior Thesis</b> (Writing Intensive) 3 hrs. cr.
Introduction to the study of individuals' thoughts, feelings and behaviors as they are influenced by their social environment, including interpersonal, intragroup and intergroup influences. Prerequisite: Psy 100.	Recognition and classification of the systems of mental disorders, specifying causes and possible therapeutic techniques. Extensive use of the American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders. Prerequisite: Psy 100.	Students design and conduct research projects resulting in a written thesis and an oral presentation. Prerequisite: Psy 480.
Psy 343 (Demand) <b>Human Sexuality</b> 3 hrs. cr.	Psy 435 (F, Odd) <b>Clinical Psychology</b> 3 hrs. cr.	Psy 498 (Demand) <b>Seminar in Psychology</b> 1-3 hrs. cr.
Surveys current research and theory related to human sexuality. Human sexual behavior and attitudes will be viewed from biological, psychological, historical and cultural perspectives.	Survey of history, current methods, guild issues and future developments of clinical practice. Seminar format with considerable student participation. Prerequisites: Junior standing and 15 hours of psychology.	Specialized knowledge and/or current research in psychology. Topics vary by interest and demand. Number of weekly meetings equal to credit hours granted. Prerequisite: Junior-senior standing and consent of instructor. Some seminars are marked (H) in the class schedule and are intended for honors students. Other students may enroll in honors seminars with consent of instructor.
Psy 382 (S) <b>Introduction to Behavior Management</b> 3 hrs. cr.	Psy 442 (S) <b>Physiological Psychology</b> 3 hrs. cr.	Psy 499 (Demand) <b>Independent Study</b> 1-3 hrs. cr.
Techniques of modifying human behavior through principles developed by learning psychology. Emphasis on design and implementation of behavioral strategy in the laboratory as well as practical settings. Prerequisite: Psy 100.	Structure and function of the nervous system from the individual neuron to the behavior of the organism. The biological basis of movement, sleep, homeostasis, sexual behavior, emotion, learning, language and abnormal behavior will be examined from an ontogenetic and phylogenetic perspective. Prerequisite: Psy 100.	Course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration must be approved by adviser and department head.
Psy 390 (S) <b>Junior Seminar</b> (Writing Intensive) 1 hr. cr.	Psy 450 (S) <b>Psychology of Human Resources</b> 3 hrs. cr.	
For Junior Psychology majors. Information & experiences helpful in making decisions about and preparing for careers, emphasizing preparation for either graduate school or baccalaureate level employment are presented. Corequisite or Prerequisite: Psy 320.	An interdisciplinary approach to traditional areas of human resource management/organizational psychology, including group interaction, communication, interviewing, compensation and benefits and legal environment. Experimental and theoretical methods will be used. Prerequisite: Psy 100 or MM 350 or permission of instructor.	
Psy 411 (F, Even) <b>Psychology of Sensation and Perception</b> 3 hrs. cr.	Psy 451 (F) <b>Learning, Memory and Cognition</b> 3 hrs. cr.	
Includes classical and modern psychophysical techniques. The physiology of various sensory systems, e.g. vision and audition, are examined in order to appreciate the nature of perception. Prerequisite: Psy 100.	Survey of the major principles and current research on such topics as classical conditioning, operant conditioning, memory systems, attentional processes, artificial intelligence and psychology-law. Prerequisite: Psy 330.	
Psy 412 (F, S) <b>Measurement and Evaluation in Education and Psychology</b> 2 hrs. cr.	Psy 452 (S) <b>History and Systems of Psychology</b> 3 hrs. cr.	
Theory and problems of measurement and evaluation. Practice in analyzing and interpreting test results and in preparing test items of various types. Prerequisite: Psy 310 or consent of instructor.	Historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy 330 or consent of instructor.	



# *School of Technology*



**Aviation**

**Computer Aided  
Drafting & Design**

**Computer Assisted  
Manufacturing Technology**

**Computer Information Science**

**Criminal Justice**

**Dental Hygiene**

**Environmental Health**

**Law Enforcement**

**Medical Technology**

**Nursing**

**Paramedic**

**Pre-Engineering**

**Preprofessional**

**Prepharmacy**

**Radiologic Technology**

# School of Technology

## School Dean

Jack G. Spurlin  
EMS-Annex, 625-9328

## Degrees and Majors

### Bachelor of Science

Computer Information Science  
Criminal Justice Administration  
Environmental Health Technology  
Management Technology  
(in conjunction with the  
School of Business Administration)  
Medical Technology  
Nursing

### Associate of Science

Computer Aided Drafting and Design  
Computer Analysis  
Computer Assisted Manufacturing  
Technology  
Computer Programming  
Dental Hygiene  
Environmental Health Technology  
Law Enforcement  
Nursing  
Pre-engineering  
Radiologic Technology

### Associate of Arts (Preprofessional)

General (Paramedic)  
Prepharmacy

### Certificate (one year)

Computer Science and Information  
Systems

### Certificate (less than 30 hours)

Basic Police Recruit  
Emergency Medical Technician  
Emergency Medical Technician-  
Paramedic

### Options and Emphases:

Computer Information Science  
As a Second Teaching Field  
Computer Science Information Systems

### Minors: (See departments)

Computer Information Systems  
Computer Science  
Criminal Justice Administration

## Role

The School of Technology is one of the four major instructional entities of Missouri Southern. As such, it offers quality instruction by and under the leadership of professional educators who also have the advantage of a background of actual work experience in business, industry, health care and government. This instruction is further enhanced by utilizing qualified individuals from business and the professions in the community as guest lecturers and part-time instructors.

Although the courses offered by the departments of the School of Technology in the various curricula are usually specifically career oriented toward a specialized field, the staff of these departments recognize the necessity of providing an understanding of the relationships between careers and society; therefore, courses from the fine arts, humanities and natural sciences, as well as courses to refine a student's ability to read, write, speak and think, are a required part of each curriculum. As a result, the students majoring in the various curricula in the School of Technology are an integral part of the entire student body.

All courses offered in the School of Technology are designed to provide students with the background or some portion of the background, to enable them to enter the employment field and to meet requirements imposed by any certifying and licensing examinations that may be required in the field.

The School of Technology also recognizes that in many respects the community is also a classroom. Therefore, a number of curricula include courses that are offered by other educational agencies. In some courses, area facilities are used as laboratory resources with students utilizing them under the direct supervision of regular college instructional personnel.

The School of Technology offers curricula leading to the B.S., A.S. and A.A. degrees and to one-year certificates. Programs of shorter duration required for licensure or certification also are offered, often in conjunction with the Division of Continuing Education. In addition, numerous courses and workshops are offered to meet specific and often rapidly emerging demands of business, industry and public service.

All departments work closely with advisory committees made up of persons from business, industry, government and the professions. Input from the advisory committees aids the faculty of the various departments in maintaining relevancy of course and curriculum content and identifying special needs that can be addressed through continuing education programs.

## Goals

The goals of the School of Technology are:

2. to maintain and develop curricula which provide the opportunity for students to obtain the background in liberal arts and sciences so they may appreciate their heritage and contemporary society and become a contributing member of their society;
3. to provide programs in the most cost effective method possible, that are cognizant of contemporary requirements of career fields and which provide best available preparation for emerging requirements;
4. to provide opportunities and encouragement for faculty and staff to remain current and conduct research in their respective disciplines;
5. to provide instructional facilities and equipment essential to the maintenance of academically excellent instruction;
6. to provide a variety of supportive functions that serve a variety of area needs;
7. to offer quality programs and in areas where required, maintain program content necessary for special accreditation;
8. to offer a variety of continuing education programs to meet special needs and demands;
9. to encourage faculty to provide consultation services and otherwise serve as resources for the area;
10. to advise people, including students and potential students, regarding knowledge, skills and abilities required to enter and succeed in various career fields;
11. to assist faculty to meet and maintain eligibility for special certification required in numerous programs.

## Aviation

EMS, 625-9328

The Aviation Program is offered in affiliation with the Mizzou Aviation Company of Joplin, Missouri.

For additional information contact:  
Dr. Jack Spurlin  
Office: EMS-Annex  
Phone: 625-9328

## Course Descriptions

Av 200

5 hrs. cr.

### Basic Pilot Training

An integrated course designed to meet ground school and flight training requirements for eligibility to take the Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, the course requires approximately 45 hours of dual and solo flight and check flight. Credit is awarded when the FAA certificate is obtained. Special fees and a third class medical certificate are required. Special fees for this course include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.

ferences for job placement later. Professional faculty maintain close ties with area industries to assure that high quality and currently used technology is taught.

Students who complete the A.S. degree in CADD may continue their education by pursuing a baccalaureate degree in one of three areas: 1) manufacturing information management systems (MIMS), 2) computer information science, 3) management technology.

The first option is a joint degree offered through both the School of Technology and the School of Business Administration that is designed to develop a person who is a manufacturing technologist with background in management, TQM, SPC, applied manufacturing concepts, industrial supervision, and applied statistical quality control. The second option is design to allow the students to develop a systems background in LAN management, data structures and data base operation for large as well as small manufacturing concerns. The third option is designed to allow students to develop management and marketing skills that would lead to an entry level management position in manufacturing.

Depending upon the student's desires, we have options available to suit most needs for the majority of the manufacturing industries both here in America and Internationally.

## Computer Aided Drafting & Design (CADD)

Ummel Technology Building 112,  
625-9567

**Faculty** Bartholet, Karimi

The computer aided drafting and design curriculum leads to an associate of science degree in CADD. The curriculum prepares individuals to enter employment as manual drafters and CAD technicians in the fields of manufacturing, civil, architecture or construction.

The requirements for the associate of science degree in drafting and design provide a broad base of technical and Core Curriculum courses. Computer aided drafting and design hardware and software are used to supplement traditional manual instruction in all courses. Built into the curriculum is an emphasis on both low-end and high-end P.C. based CAD software. As the students study the various fields within drafting, they are given opportunities to apply theory through the various CAD software packages available within the department.

The department also functions as an internationally recognized authorized training center for AUTODESK software. This allows each student to be exposed to the latest CAD technology and the application of international standard systems such as A.N.S.I. and I.S.O.

Student internships and independent studies allow the student to join the real world while in school and provide invaluable ref-

CAMT 100	Intro to Machine Tool Processes	3
CAMT 150	Modern Manufacturing Processes	3
<b>Electives</b>	<b>(at least 6 hours):</b>	<b>6</b>
CADD 298	Special Topics in Drafting and Design*	1-3
CADD 490	Internship in Drafting and Design*	1-4
CADD 498	Seminar in Drafting and Design*	1-3
CADD 499	Independent Study*	1-3
GB 310	International Business	3
Econ 180	American Economic Systems	3
CAMT 110	Fund. Cutting Tools	1
CAMT 160	Inspection and Gaging*	1
CAMT 220	Fundamentals of Robotics*	1
MIMS 310	Computer Production/ Planning Control	3
MIMS 320	Applied Stat. Quality Control	3
Comp 105	Intro to Micro Use	3
CIS 305	Micro Comp Applied I	3
CIS 310	Micro Comp Applied II	3
MM 237	Managerial Data Proc	3
MM 337	Management Info Systems	3

\*See course description for prerequisites.

\*\*Offered only in the summer.

## Suggested Order of Study

### Associate of Science Degree

Major Code 5303  
Computer Aided Drafting and Design Major

### Associate of Science Degree in Computer Aided Drafting and Design

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>26</b>
<b>CADD Requirements</b>	<b>42</b>
CADD 110 Engineering Graphics I	3
CADD 115 Intro to Computer Aided Drafting	3
CADD 120 Descriptive Geometry*	3
CADD 130 Engineering Graphics II	3
CADD 202 Tool Design and Manufacturing*	3
OR	
CADD 204 Industrial Statics and Strength of Material*	3
CADD 210 Technical Illustration**	3
CADD 220 Architectural Drafting	3
OR	
CADD 330 Computerized Machine Design *	3
CADD 230 Survey and Mapping	3
OR	
MIMS 310 Computer Production Planning Control *	3
CADD 260 Engineering Graphics III*	3

### Freshman Year

1st Semester		
Course		Hours
CADD 110	Engineering Graphics I	3
CADD 115	Intro to CAD	3
CAMT 100	Intro Mach Tool Proc	3
CAMT 150	Materials & Processes	3
CORE	[Math 30/130]	3
CORE	[Psy 120 College Orient]	1
		16
2nd Semester		
CADD 120	Descriptive Geometry	3
CADD 130	Engineering Graphics II	3
Math 112/140	Trigonometry	3
CORE	[Eng 101 Comp I]	3
Comm 101	Oral Comm	3
CORE	[HPER 101 Physical Activity]	1
		16

### Summer

CADD 210	Technical Illustration	3
CORE	[HPER 103 Liftin Wellness]	2

5

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## Sophomore Year

1st Semester		2nd Semester		3 hrs. cr.
CADD 202	Tool Design/Mfg	Econ 202	Prin of Econ-Micro	3
OR		MIMS 450	Electronic Data Systems	3
CADD 204	Statics/Strength of Materials	MIMS 490	Mfg Appl	3
CADD 230	Survey and Mapping	CORE	[PSc 120 Gov't: U.S./Sta/Loc]	3
CORE	[Hist 110 U.S. History]	CORE	[Hist 120/320]	3
CORE	[Econ 201Economics-Macro]			15
Elective	Technical Electives			

## 2nd Semester

CADD 220	Architectural Drafting			
OR				
CADD 330	Comp Machine Design	3		
CADD 260	Engineering Graphics III	3		
CORE	[Phys 100 Fund of Phys Sci]	5		
CORE	[Humanities/Fine Arts]	3		
Technical Elective		3		
		17		

[Department Recommendation]  
(Prerequisites)

For additional information contact:  
Mr. Francis Bartholet  
Office: Ummel Technology Building 112  
Phone: 625-9567

For additional information contact:

(See p. 118, School of Business)  
Dean of School of Business Administration  
Office: Matthews Hall 302  
Phone: 625-9319

For additional information contact:  
Dean of School of Technology  
Office: EMS Building  
Phone: 625-9328

Students should consult the Dean of the School of Technology at the earliest possible date in order to incorporate the correct sequence into the appropriate associate of science degree program.

## CADD 130 (F, S)

### Engineering Graphics II

Detail and assembly drawings of machines and machine elements. Survey of the use of machine tools, processes and materials in the design and fabrication of machine parts. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

## CADD 202 (F, Odd)

### Tool Design and Manufacturing

Principles of tool design with emphasis on the design and graphical representation of common jigs and fixtures used in the manufacturing industry using manual and computer methods. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 130.

## CADD 204 (F, Even)

### Industrial Statics and Strength of Material

Principles of mechanical design with emphasis on proper selection, function and graphical representation of common machine components. Formulas, vendor catalogs and commercial computer software will be used to select components. One hr. lecture, 4 hrs. lab per week. Prerequisites: CADD 120 & 130.

## CADD 210 (Summer)

### Technical Illustration

Pictorial drawing with an emphasis on mechanical and architectural applications. Major topics include mechanical illustrations, exploded views and perspectives drawn manually and with a computer aided drafting system. Drawing media such as polyester film, ink, illustration board, lettering systems and air brushes will be introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

## CADD 220 (S, Even)

### Architectural Drafting

Principles of architectural design, preparing sets of working drawings, building details and use of modern construction materials for residential building. Manual and computer aided design techniques used throughout the course. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

## CADD 230 (F, Even)

### Survey & Mapping

Theory, principles and practices of surveying and mapping as applied to construction, site plans and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations and preliminary surveys stressed. Calculations conducted manually and with commercial computer software. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

## Course Descriptions

### Computer Aided Drafting & Design (CADD)

#### CADD 110 (F, S) 3 hrs. cr.

##### Engineering Graphics I

Includes use of instruments, geometric construction, lettering, orthographic projection, dimensioning, sections and conventions, auxiliaries and pictorial drawings. One hr. lecture, 4 hrs. lab per week. Corequisite: CADD 115.

#### CADD 115 (F, S) 3 hrs. cr.

##### Intro to Computer Aided Drafting

Computer aided drafting and the operation of a computer drafting system. Should be taken concurrently with Drafting 110 by students who have had no college drafting courses. Individuals who have a background in drafting will be able to take the course for personal or professional improvement, with consent of instructor. One hr. lecture per week, 4 hrs. lab per week.

#### CADD 120 (S) 3 hrs. cr.

##### Descriptive Geometry

Practical applications of advanced projection techniques to problems in civil, structural, mechanical and architectural engineering. Manual and computer assisted projects on methods are introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

## Suggested Order of Study

### Bachelor of Science in Management Technology with an emphasis in Manufacturing Information Management Systems (MIMS)

## Junior Year

Course		Hours	
MIMS 310	Comp Prod Plan/Control	3	
Acct 201	Prin of Accounting I	3	
GB 321	Business Stats I	3	
MM 350	Prin of Management	3	
CORE	[Eng 102 Comp II]	3	
CORE	[Econ 201 Econ-Macro]	3	
		18	

## 2nd Semester

MM 354	Total Quality Mgmt	3		
GB 405	Statist Quality Control	3		
MIMS 420	Mfg Computer Appl	3		
CORE	[Fine Arts/Humanities]	3		
CORE	[Bio 101 Gen Biology]	4		
CORE	[GB 310 Intro to Business]	3		
		16		

## Senior Year

1st Semester			
CIS 315	Lan Mgmt	3	
MIM 431	Operations Mgmt	3	
MIMS 320	Applied Stat Quality Ctrl	3	
MIMS 350	Ind Supervision	3	
CORE	[Fine Arts/Humanities]	3	
		15	

CADD 260 (S) 3 hrs. cr.

**Engineering Graphics III**

Preparation of drawings in mechanical, civil, architectural, structural and electronics using a computer aided drafting system. A variety of commercial CAD software packages will be used to assist the advanced student in developing skill and knowledge in the use of a CAD system to prepare drawings in one or more drafting fields. Three 1 hr. lectures per week, open labs as required. Prerequisites: CADD 110, CADD 115 and one or more drafting specialty courses from the following: CADD 130, CADD 202, CADD 220 or CADD 230. A student having industrial drafting experience may be admitted with consent of instructor if CADD 115 or equivalent industrial training course has been completed.

CADD 330 (S, Odd) 3 hrs. cr.

**Computer Machine Design**

Instruction in the principles, theory and applications of machine design utilizing the CAD workstation. Special emphasis on solid modeling and design analysis. Three hrs. lecture/labs are arranged. Prerequisite: CADD 130.

CADD 490 (Demand) 1-8 hrs. cr.

**Internship in Drafting and Design**

A structured work experience in drafting/design at an institution, facility or industry not directly related to Missouri Southern. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site professional who is not a Southern faculty or staff member. The on-site professionals will supervise the student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CADD & committee approval.

CADD 298 (Demand) 1-8 hrs. cr.

**Special Topics Draft/Design**

A special topic or topics not normally included in another drafting/design course. Prerequisites determined by the department and stipulated in a course syllabus.

CADD 498 (Demand) 1-3 hrs. cr.

**Seminar in Drafting & Design**

Specialized knowledge and skills related to new developments in drafting and design. Topics will vary by the semester and situation. Prerequisite: An associate degree in drafting & design or senior standing in management-technology or industrial technology.

CADD 499 (Demand) 1-3 hrs. cr.

**Independent Study in Drafting & Design**

Individually directed reading, research and discussions in selected areas of drafting and design for advanced majors. Scope, depth, area of concentration and credit hours will be arranged when registering for the course. Offered by arrangement. Prerequisite: 15 hrs. of drafting with 3.0 GPA and permission of instructor, department head and school dean.

## Manufacturing Information Management Systems (MIMS)

(See page 118 - School of Business Administration)

MIMS 310 (F) 3 hrs. cr.

**Computer Production/Planning Control**

Theory and application of computer-automated process planning (CAPP) systems as they relate to the study of computer-integrated manufacturing (CIM). Five hrs. lecture/labs. Prerequisite: CAMT 160.

MIMS 320 (F) 3 hrs. cr.

**Applied Statistical Quality Control**

The concept of quality control and its applications. Importance and impact of Total Quality Control for manufacturing industries in today's age of global competition. Tools and techniques of Statistical Quality/Process Control including control charts will be discussed. Aspects of inspection, testing as they relate to interface with quality control and automated data collection will be covered. Prerequisites: Math 130 or above, GB 321 or permission of department head.

MIMS 350 (F) 3 hrs. cr.

**Industrial Supervision**

(Writing Intensive) A dynamic look at the interrelationship between work assignments, work performance, and performance outcomes within an industrial work environment. An examination of group dynamics, presentations, and basic interpersonal skills will be combined to establish an understanding and develop a sense of commitment to a positive and progressive work ethic. Prerequisite: Junior standing.

MIMS 410 (S) 3 hrs. cr.

**International Trends in Manufacturing**

(Writing Intensive)

Discussion of issues and trends in the U.S. manufacturing and technology with special emphasis on the causes and consequences of its internationalization in the face of global competition. The course content may vary to ensure that contemporary or latest developments are highlighted. Prerequisites: Junior standing, 6 hrs. of English Comp. or permission of the department.

MIMS 420 (S) 3 hrs. cr.

**Manufacturing Computer Applications**

Introduces problem solving and analysis in the application of integrated manufacturing information systems software. Students will address the following area's of application: design, production routing, project planning and tracking, material handling and inventory control, coding and classification using current integrated manufacturing software. Prerequisites: CIS 315, MIMS 310.

MIMS 450 (S)

3 hrs. cr.

**Electronic Data Communications Systems**

A survey of techniques and principles used to obtain maximum utilization of the new horizons in data communications. Will cover modem hardware and software installation and operation. E-mail, data compression schemes, off-line readers and the Internet will be explored. Setup and operation of BBSes for Businesses will be discussed. One hour lecture with four hours of lab every week for a total of 16 weeks. Lab time to be on the Southern BBS using online E-Mail, file transfer and protocol test for assignments. Prerequisite: None.

MIMS 490 (S)

3 hrs. cr.

**Manufacturing Applications**

Allows the student to build on all the skills and knowledge gained in prior coursework and creative implementation of the concepts learned through projects pertaining to various manufacturing applications. Will work in teams on project(s) that will take them from ideas through various aspects of design, development and manufacturing to conclusion. Prerequisites: Senior standing, MIMS 310, MM 354, MIMS 420, Math 140.

## **Computer Assisted Manufacturing Technology (CAMT)**

*Ummel Technology Building 115,  
625-9327*

**Faculty** Karimi, Schultz

The department offers an associate of science degree. The requirements of this degree will provide a progressive and flexible technical education which will assist in securing employment in rapidly changing technological fields. Students who complete this degree have the option to pursue a baccalaureate degree in management technology, with an emphasis in computer integrated manufacturing (CIM).

A variety of courses in this program emphasize the utilization of computers and various software which enrich the skills acquired by the students to compete in this ever-changing age of modern technology. These include: Computer Numerical Control, Introduction to CADD, Fundamentals of Robotics, Computer Animation in Industry, Computer Assisted Manufacturing and Computerized Production Planning and Control Systems. General education course work in mathematics, physical science, English, history and communications will give the student a total education.

The courses in the computer assisted manufacturing technology curriculum are designed to provide the students with applications-oriented training in both basic and advanced aspects of technology. The course work is a combination of lecture and labs. This allows for instruction in equipment such as a computer numerical control machining center and an industrial robot. The lab session enables the student to apply information learned in lecture and also allows for individual innovation. Students have received recognition in world-class competition for innovative developments in robotics.

Professional faculty interact with local industry to insure that instruction is current with the latest technological developments. This interaction of faculty and involvement of an individual in Society of Manufacturing Engineers Student Chapter provides students with excellent contacts for internships and employment.

## Associate of Science in Computer Assisted Manufacturing Technology

	Semester Hours
<b>Core Requirements (See p. 41)</b>	<b>25</b>
<b>Computer Assisted Manufacturing Technology Requirements</b>	<b>36</b>
CAMT 100 Intro to Machine Tool Processes	3
CAMT 150 Modern Manufacturing Processes	3
CAMT 200 Computer Numerical Processes*	3
CAMT 220 Fundamentals of Robotics*	
OR	
CAMT 210 Computer Animation in Industry*	3
CAMT 240 Industrial Materials*	3
CAMT 250 Computer Assisted Manufacturing*	3
CADD 110 Introductory Drafting	3
CADD 115 Introduction to CADD	3
CADD 310 Computerized Prod Plan and Control Systems*	3
Math 112 Trigonometry	3
Manufacturing Technology Electives (at least 6 hours)	6
CADD 204 Mechanical Design*	3
CADD 330 Computer Machine Design*	3
CAMT 499 Independent Study in Manufacturing Tech	1-3
CAMT 498 Seminar in Manufacturing Technology	1-3
CAMT 490 Internship in Manufacturing Technology	1-8
CAMT 298 Special Topics in Manufacturing Technology*	1-8
CAMT 160 Inspection and Gaging*	2

CAMT 330 Quality Control and Reliability*	3
CADD 202 Tool Design*	3
CADD 260 Computer Aided Drafting*	3
Any other CAMT or CADD courses	
	61

\*See course descriptions for prerequisites.

## Course Descriptions

CAMT 100 (F, S) 3 hrs. cr.

### Intro to Machine Tool Processes

The theory and safe operation of basic machine tools. Fundamental practices include: safety, basic mathematics, blue print reading, benchwork, precision measurement, metal sawing, drills and drilling, pedestal bench grinding, engine lathes, shapers, mills and pantographs. One hr. lecture, 4 hrs. lab per week.

CAMT 105 (F, S) 4 hrs. cr.

### Intermediate Machine Tool Processes

An introduction to the operation of surface, cylindrical, tool and cutter grinders. Principles of inspection and gaging, applied trigonometry, tooling geometry and advanced lathe and milling practices will be covered. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 or consent of instructor.

CAMT 150 (F, S) 3 hrs. cr.

### Modern Manufacturing Process

A survey of modern manufacturing processes in which raw materials are converted into products. Introduction and application to the principles of forming, traditional and contemporary casting, molding, nontraditional machining, joining, automated assembly, flexible manufacturing and computer integrated manufacturing.

CAMT 160 (S) 1 hr. cr.

### Inspection and Gaging

Inspection, gaging and precision measurement procedures utilizing mechanical, electronic and optical measuring equipment and related math. Geometric dimensioning and tolerancing emphasized. Computer assisted process control methods are introduced and applied to specific inspection procedures. One 1-hour lecture, one 2-hour lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 and Math 112 or consent of instructor.

CAMT 200 (F, S) 3 hrs. cr.

### Computer Numerical Control

Basic numerical control concepts and its applications, the operation of numerical control system, numerical control programming as applied to machining applications using MDI. One hr. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100, CADD 110, Math 30 or 112 or consent of instructor.

CAMT 210 (S) 3 hrs. cr.

### Computer Animation For Industry

Fundamentals of computer animation on a personal computer focusing on industrial applications, such as product promotion and marketing, motion simulation of machine elements and mechanisms, and its use in presentation, training and instruction. Involves imparting movement and photorealistic appearance to geometric shapes and models. One hour lecture and 4 hrs. lab per week. Prerequisites: CADD 115 or COMP 105 or permission of the department.

### Sophomore Year

1st Semester	
CAMT 202 Tool Design/Manufacture	3
CAMT 200 Comp Numeric Control	3
CORE (Phys 100 Fund of Phys Sci)	5
CORE (Hist 110/Hist 120/PSc 120)	3
Technical Elective	3
	17

2nd Semester	
CORE [Econ 201 Economics-Macro]	3
CAMT 250 Comp Assisted Manu	3
MIMS 310 Comp Prod Planning	3
CORE [Humanities/Fine Arts]	3
CORE [HPER 103 Lifetime Wellness]	2
Technical Elective	3
	17

For additional information contact:

Mushabbar Karimi

or

Don Schultz

Office: Ummel Technology Building 115

Phone: 625-9327

CAMT 220 (F) 1 hr. cr.

**Fundamentals of Robotics**

Fundamental concepts underlying robot programming and its applications in the manufacturing industry. Covers operation of an industrial robot arm, both leadthrough and textual programming, end effector design, interfacing with computers and CNC machines and control systems. One hour lecture and 4 hr. lab per week. Prerequisites: CAMT 100 or consent of instructor.

CAMT 240 (S) 3 hrs. cr.

**Industrial Materials**

Introduction to metallurgy and nonmetallic materials currently used in today's modern manufacturing settings. Theory and application of principles for identifying, producing, conditioning and testing materials. Laboratory activities involve both manual and computer assisted testing. One hr. lecture and 4 hr. lab per week. Prerequisite: CAMT 150.

CAMT 250 (S) 3 hrs. cr.

**Computer Assisted Manufacturing**

Advanced techniques of CNC & N/C programming using a completely integrated environment. Concepts of manufacturing programs being an integral part of a dynamic environment as compared to being in an isolated system. One hr. lecture, 4 hr. lab per week. Prerequisites: CAMT 200 or consent of instructor.

CAMT 298 (Demand) 1-8 hrs. cr.

**Selected Topics in Manufacturing Technology**

Special topics in new or emerging manufacturing technology that are not normally included in another course. Prerequisites will be specified by the department in a course syllabus.

CAMT 310 (F) 4 hrs. cr.

**Manufacturing Data Processing**

Designed to teach overall data processing techniques as relating to the manufacturing environment. A solid foundation of manufacturing processes and departmental structuring is required in addition to a knowledge of microcomputer usage. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, Comp 105 or PC DOS, CADD 115, Acct 201 or consent of instructor.

CAMT 330 (F) 3 hrs. cr.

**Quality Control and Reliability**

The concept of quality control and its applications. The importance of quality control, tools and techniques of SPC/SQC covering control charts used in quality control analysis, inspection and testing for quality control, process variability, product reliability and maintainability. Two hrs. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100 & 160, Comp 105 or PC DOS, Math 310 or GB 321 or GB 405 or consent of instructor.

CAMT 490 (Demand) 1-8 hrs. cr.

**Internship in Manufacturing Technology**

A structured work experience in manufacturing technology at an institution, facility or industry not directly related to Missouri Southern. Practical application of the student's major under the direct supervision of an on-site professional who is not an MSSC faculty or staff member. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CAMT courses and permission of a committee.

CAMT 498 (Demand) 1-3 hrs. cr.

**Seminar in Manufacturing Technology**

Covers specialized knowledge and skills related to new developments in manufacturing technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology or an associate degree in manufacturing technology.

CAMT 499 (Demand) 1-3 hrs. cr.

**Independent Study in Manufacturing Technology**

Individually directed reading, research and report preparation in selected areas of contemporary manufacturing technology, for advanced majors. Scope, depth and area of concentration and credit will be arranged when enrolling in the course. Offered by arrangement. Prerequisite: Completion of required manufacturing technology courses with minimum 3.0 GPA and permission of instructor, department head and school dean.

- Minor in CIS - Information Systems/ Informatics
- Minor in CIS - Computer Science
- Associate of Science in CIS - Information Systems/Informatics
- Associate of Science in CIS - Computer Science
- One Year Certificate of Achievement

The bachelor of science alternatives prepare the student for graduate school or entry level positions such as systems programmer, systems analyst, applications programmer, or network administrator. A minor or associate of science provides the student pursuing some other major with a credential and expertise in computing, an enhancement which is becoming increasingly important in almost every area of science, education, business, and the arts.

The information systems major is distinguished by selected CIS and business classes which develop the student's understanding of an organization's information requirements and procedures for designing an information system which will facilitate the management of the organization. The computer science major requires that the student take CIS and mathematics classes which develop an expertise in applied mathematics and the theoretical foundations of computer science. Such knowledge is required to design and implement computer solutions for a wide range of problems encountered in science and engineering.

## Computer Information Science

Matthews Hall 223, 625-9383

**Faculty** Oakes – Head, Earney, Herr, Kelley, Kemm, Mays, Tunnell

The Computer Information Science (CIS) department provides opportunities for a broad undergraduate education in the many aspects of computer hardware and software. The faculty's main objective is to offer courses of instruction which develop a thorough understanding of methods for utilizing computer technology in the design and implementation of solutions to complex management, scientific, and engineering problems. Within this context, the department offers the following curricula options:

- Bachelor of Science in CIS - Information Systems
- Bachelor of Science in CIS - Computer Science
- Bachelor of Science in CIS - Computational Mathematics
- Bachelor of Science in CIS - Computer Technology

The computational mathematics curriculum meets the requirements for a double major in computer information science and mathematics. Computer technology qualifies the student for an associate of science degree in computer aided drafting and design (CADD) or computer assisted manufacturing technology (CAMT), as well as a major in CIS.

The nature of computer information science is such that a student selecting this major should enjoy and have a talent for solving problems. The effectiveness of the CIS curricula is measured by the success of our graduates. Their average starting salaries are among the highest when compared to other majors, and placement records indicate that they have enjoyed an excellent placement rate. Many hold positions as middle and upper-level managers for a wide range of organizations, and several have earned graduate degrees.

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## Bachelor of Science in CIS – Information Systems Major

<b>Core Requirements (p. 41) (51*)</b>	<b>45</b>
<b>CIS Core</b>	<b>45</b>
Comp 110 Programming I	3
Comp 210 Programming II	3
Comp 230 Report Program Generation (RPG)	3
Comp 234 Business Data Processing Techniques (COBOL)	3
Comp 302 Information Systems I (WI)	3
CIS 305 Microcomputer Applications I	3
CIS 310 Microcomputer Applications II	3
CIS 321 Interactive RPG/400	3
CIS 334 Advanced Structured COBOL	3
CIS 335 Object Oriented Programming	3
CIS 345 Computer Networks	3
CIS 350 Data Structures	3
CIS 410 Information Systems II	3
CIS 425 Database Management Systems (WI)	3
CIS 450 Operating Systems (WI)	3
<b>Business Core **</b>	<b>24</b>
Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
Econ 201 Principles of Economics (Macro)	3
Econ 202 Principles of Economics (Micro)	3
Econ 350 Financial Management I	3
GB 321 Business Statistics I	3
MM 300 Principles of Marketing	3
MM 350 Principles of Management (WI)	3
<b>Mathematics Core</b>	<b>3</b>
Math 130 or above	3
<b>General Electives</b>	<b>11</b>
<b>Total</b>	<b>128</b>

\* Mathematics and economics courses in major requirements satisfy six hours of the Core Curriculum.

\*\* Business Core qualifies for a minor in business.

## Bachelor of Science in CIS – Computer Science Major

<b>Core Requirements (p. 41) (51*)</b>	<b>43</b>
<b>CIS Core</b>	<b>48</b>
Comp 110 Programming I	3
Comp 210 Programming II	3
Comp 234 Business Data Processing Techniques (COBOL)	3
Comp 302 Information Systems I (WI)	3
CIS 305 Microcomputer Applications I	3
CIS 310 Microcomputer Applications II	3
CIS 330 Assembly Language	3

CIS 334	Advanced Structured COBOL	3	Math 300	Fundamentals of Mathematical Thought	3
CIS 335	Object Oriented Programming	3	Math 350	Introduction to Numerical Analysis	
CIS 345	Computer Networks	3	OR		
CIS 350	Data Structures	3	Math 431	Numerical Analysis	3
CIS 360	Computer Graphics	3	Math 351	Linear Algebra	3
CIS 410	Information Systems II	3	Math 371	Introduction to Operations Research(WI)	3
CIS 425	Database Management Systems (WI)	3	Math Electives Numbered 320 and above		6
CIS 430	Introduction to Artificial Intelligence	3	<b>Supporting Requirements</b>		13
CIS 450	Operating Systems (WI)	3	Phys and Chem Electives ***		
<b>Mathematics Core **</b>		<b>21</b>	<b>General Electives</b>		<b>6</b>
Math 150	Calculus with Analytic Geometry I	5	<b>Total</b>		<b>128</b>
Math 250	Calculus with Analytic Geometry II	5			
Math 260	Calculus with Analytic Geometry III	5			
Math 300	Fundamentals of Math Thought	3			
Math 371	Introduction to Operations Research(WI)	3			
<b>Physics Core</b>		<b>5</b>			
Phys 151	Elementary College Physics I	5			
<b>General Electives</b>		<b>11</b>			
<b>Total</b>		<b>128</b>			

\* Mathematics and physics courses in major requirements satisfy eight hours of the Core Curriculum.

\*\* Mathematics Core qualifies for a minor in mathematics.

## Bachelor of Science in CIS - Computational Mathematics Major \*

<b>Core Requirements (p. 41) (51**) 43</b>	
<b>CIS Core</b>	<b>33</b>
Comp 110 Programming I	3
Comp 210 Programming II	3
Comp 234 Business Data Processing Techniques (COBOL)	3
CIS 335 Object Oriented Programming	3
CIS 345 Computer Networks	3
CIS 350 Data Structures	3
CIS 360 Computer Graphics	3
CIS 425 Database Management Systems (WI)	3
CIS 430 Introduction to Artificial Intelligence	3
CIS 450 Operating Systems (WI)	3
CIS Electives Numbered 305 and above	3
<b>Mathematics Core</b>	<b>33</b>
Math 150 Calculus with Analytic Geometry I	5
Math 250 Calculus with Analytic Geometry II	5
Math 260 Calculus with Analytic Geometry III	5
<b>CADD Core</b>	
CADD 110 Introductory Drafting	3
CADD 115 Intro to Computer Aided Drafting	3
CADD 120 Descriptive Geometry	3
CADD 130 Machine Drafting	3
CADD 204 Mechanical Design	3
CADD 210 Technical Illustration	3
CADD 260 Computer Aided Drafting	3

\* This option also qualifies for a bachelor of science in mathematics. It is listed as the computational mathematics alternative in the Mathematics section of the catalog.

\*\* Mathematics, chemistry, and physics courses in major requirements satisfy eight hours of the Core Curriculum.

\*\*\* Must include one from each (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180, Phys 300).

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics and computer information science requirements.

## Bachelor of Science in CIS - Computer Technology Major (CADD)\*

<b>Core Requirements (p. 41) (51**) 48</b>	
<b>CIS Core</b>	<b>36</b>
Comp 110 Programming I	3
Comp 210 Programming II	3
Comp 234 Business Data Processing Techniques (COBOL)	3
Comp 302 Information Systems I (WI)	3
CIS 305 Microcomputer Applications I	3
CIS 310 Microcomputer Applications II	3
CIS 315 LAN Management	3
CIS 335 Object Oriented Programming	3
CIS 350 Data Structures	3
CIS 360 Computer Graphics	3
OR	
CIS 410 Information Systems II	3
CIS 425 Database Management Systems (WI)	3
CIS 450 Operating Systems (WI)	3
<b>CADD Core</b>	
CADD 110 Introductory Drafting	3
CADD 115 Intro to Computer Aided Drafting	3
CADD 120 Descriptive Geometry	3
CADD 130 Machine Drafting	3
CADD 204 Mechanical Design	3
CADD 210 Technical Illustration	3
CADD 260 Computer Aided Drafting	3

CADD 310	Computerized Production Planning and Control Systems	3
CAMT 100	Intro to Machine Tool Processes	3
CAMT 150	Modern Manufacturing Process	3
<b>Mathematics Core</b>		<b>3</b>
Math 112	Trigonometry (or as approved by adviser)	3
<b>Professional Electives</b>	(upper division as approved by adviser)	<b>7</b>
<b>General Electives</b>	(upper division as approved by adviser)	<b>4</b>
<b>Total</b>		<b>128</b>

\* This option also qualifies for an associate of science in computer aided drafting and design.  
 \*\* Mathematics course in major requirements satisfy three hours of the Core Curriculum.

## Bachelor of Science in CIS - Computer Technology Major (CAMT)\*

<b>Core Requirements (p. 41) (51**)</b>	<b>48</b>	
<b>CIS Core</b>	<b>36</b>	
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 302	Information Systems I (WI)	3
CIS 305	Microcomputer Applications I	3
CIS 310	Microcomputer Applications II	3
CIS 315	LAN Management	3
CIS 335	Object Oriented Programming	3
CIS 350	Data Structures	3
CIS 360	Computer Graphics	
OR		
CIS 410	Information Systems II	3
CIS 425	Database Management Systems (WI)	3
CIS 450	Operating Systems (WI)	3
<b>CAMT Core</b>	<b>33</b>	
CAMT 100	Intro to Machine Tool Processing	3
CAMT 150	Modern Manufacturing Processes	3
CAMT 200	Computer Numerical Control	3
CAMT 220	Fundamentals of Robotics	
OR		
CAMT 210	Computer Animation for Industry	3
CAMT 240	Industrial Materials	3
CAMT 250	Computer Assisted Manufacturing	3
CADD 110	Introductory Drafting	3
CADD 115	Intro to Computer Aided Drafting	3

CADD 130	Machine Drafting	3
CADD 204	Mechanical Design	3
CADD 310	Computerized Production Planning and Control Systems	3
<b>Mathematics Core</b>		<b>3</b>
Math 112	Trigonometry (or as approved by adviser)	3
<b>Professional Electives</b>	(upper division as approved by adviser)	<b>7</b>
<b>General Electives</b>	(upper division as approved by adviser)	<b>1</b>
<b>Total</b>		<b>128</b>

\* This option also qualifies for an associate of science in computer assisted manufacturing technology.

\*\* Mathematics course in major requirements satisfy three hours of the Core Curriculum.

## Associate of Science in CIS - Information Systems/ Informatics Major

<b>Core Requirements (p. 41) (25-26*)</b>	<b>22-23</b>	
<b>CIS Core</b>	<b>21</b>	
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 302	Information Systems I (WI)	3
CIS 305	Microcomputer Applications I	3
CIS 315	LAN Management	3
CIS 410	Information Systems II	3
Comp/CIS Electives (above Comp 110)	3	
<b>Mathematics Core</b>		
Math 112 or above	3	
<b>Professional Core **</b>	<b>12</b>	
<b>General Electives</b>	<b>5-6</b>	
<b>Total</b>	<b>64</b>	

\* Mathematics requirements satisfy three hours of the Core Curriculum.

\*\* Must be selected from an auxiliary area such as art, biology, business, communications, mathematics, nursing, etc. with the approval of the CIS department head.

## Minor in CIS - Information Systems/Informatics Minor

<b>CIS Core</b>	<b>15</b>	
Comp 110	Programming I	3
Comp 302	Information Systems I (WI)	3
CIS 305	Microcomputer Applications I	3
CIS 410	Information Systems II	3
Comp/CIS Electives (above Comp 110)	3	
<b>Professional Core *</b>	<b>6</b>	
<b>Total</b>	<b>21</b>	

\* Must be selected from the students major area with approval of the CIS department head.

## Minor in CIS - Computer Science Minor

<b>CIS Core</b>	<b>15</b>	
Comp 110	Programming I	3
Comp 210	Programming II	3
CIS 335	Object Oriented Programming	3
CIS 350	Data Structures	3
Comp/CIS Electives (above Comp 110)	3	
<b>Professional Core *</b>	<b>6</b>	
<b>Total</b>	<b>21</b>	

\* Must be selected from the students major area with approval of the CIS department head.

## Associate of Science in CIS - Computer Science Major

<b>Core Requirements (p. 41)(26*)</b>	<b>18</b>	
<b>CIS Core</b>	<b>18</b>	
Comp 110	Programming I	3
Comp 210	Programming II	3
CIS 315	LAN Management	3
CIS 335	Object Oriented Programming	3
CIS 350	Data Structures	3
Comp/CIS Elective (above Comp 110)	3	
<b>Mathematics Core</b>		
Math 150	Calculus with Analytic Geometry I	5
<b>Physics Core</b>		
Phys 151	Elementary Physics I	5
<b>Professional Core **</b>	<b>12</b>	
<b>General Electives</b>	<b>6</b>	
<b>Total</b>	<b>64</b>	

\* Mathematics and physics courses satisfy eight hours of the Core Curriculum.

\*\* Must be selected from an auxiliary area such as art, biology, business, communications, mathematics, nursing, etc. with the approval of the CIS department head.

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## One Year Certificate of Achievement

Eng 101	Freshman	
	Composition I	3
Math 130	or higher	3
Comp 105	Introduction to Micro-computer Use	
OR		
CIS 305	Microcomputer Applications I	3
Comp 110	Programming I	3
Comp 210	Programming II	3
Comp 230	Report Program Generation (RPG)	
OR		
Comp 234	Business Data Processing Techniques (COBOL)	3
CORE	Electives	6
<b>General Electives</b>		<b>6</b>
<b>Total</b>		<b>30</b>

<b>Junior Year</b>		
1st Semester		
Comp 234	Bus DP Tech (COBOL)	3
CIS 321	Interactive RPG/400	3
Econ 350	Financial Management I	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Area 2 C.]	3
CORE	[Hist 110 U.S. History]	3
		<b>18</b>
2nd Semester		
CIS 310	Microcomputer Applications II	3
CIS 345	Computer Networks	3
CIS 350	Data Structures	3
Math 300	Fund of Math Thought	3
CORE	[Area 2 A.]	3
		<b>15</b>

<b>Junior Year</b>		
1st Semester		
Comp 234	Bus DP Tech (COBOL)	3
CIS 430	Intro to Artificial Intelligence	3
Math 371	Intro to Oper Research(WI)	3
Phys 151	Elem Coll Physics I	5
	General Elective	3
		<b>17</b>
2nd Semester		
Comp 302	Information Systems I (WI)	3
CIS 334	Advanced Structured COBOL	3
CIS 425	Database Mgmt. Systems (WI)	3
CORE	[PSc 120 Govt:US,St,Local]	3
CORE	[Area 2 C.]	3
		<b>15</b>

<b>Senior Year</b>		
1st Semester		
CIS 410	Information Systems II	3
CIS 450	Operating Systems (WI)	3
MM 300	Principles of Marketing	3
CORE	[Hist 120 U.S. History]	3
	General Elective	3
		<b>15</b>
2nd Semester		
CIS 425	Database Mgmt Sys (WI)	3
CORE	[Area 5 A.]	3
CORE	[Area 2 A.]	3
CORE	[Area 2 B. Literature]	3
	General Elective	4
		<b>16</b>

## Suggested Order of Study

### Bachelor of Science in CIS - Information Systems Major

#### Freshman Year

1st Semester		
Course		Hours
Comp 110	Programming I	3
Math 131	Finite Math	3
Psy 120	College Orientation	1
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Psy 100 Gen Psy]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetime Wellness]	2
		<b>16</b>
2nd Semester		
Comp 210	Programming II	3
Econ 201	Prin of Econ (Macro)	3
CIS 305	Microcomputer Applications I	3
CORE	[Eng 102 Comp II (WI)]	3
CORE	[Bio 101 Gen Biology]	4
		<b>16</b>

#### Sophomore Year

1st Semester		
CIS 335	Object Oriented Programming	3
Acct 201	Principles of Accounting I	3
Econ 202	Prin of Econ (Micro)	3
CIS 310	Microcomputer Applications II	3
CORE	[Phys 100 Phys Sci]	5
		<b>17</b>
2nd Semester		

Comp 230	Rpt Prog Gen (RPG)	3
CIS 350	Data Structures	3
Acct 202	Prin of Acct II	3
GB 321	Business Statistics	3
	General Elective	3
		<b>15</b>

### Bachelor of Science in CIS - Computer Science Major

#### Freshman Year

1st Semester		
Course		Hours
Comp 110	Programming I	3
Math 150	Calculus I	5
Psy 120	College Orientation	1
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Psy 100 General Psychology]	3
CORE	[HPER 103 Lifetime Wellness]	2
		<b>17</b>
2nd Semester		
Comp 210	Programming II	3
Math 250	Calculus II	5
CORE	[Eng 102 Comp II (WI)]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 101 Physical Activity]	1
		<b>16</b>

#### Sophomore Year

1st Semester		
CIS 335	Object Oriented Programming	3
CIS 305	Microcomputer Applications I	3
Math 260	Calculus III	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. History]	3
		<b>17</b>
2nd Semester		

#### 2nd Semester

CIS 310	Microcomputer Applications II	3
CIS 345	Computer Networks	3
CIS 350	Data Structures	3
Math 300	Fund of Math Thought	3
CORE	[Area 2 A.]	3
		<b>15</b>

#### Junior Year

1st Semester		
Comp 234	Bus DP Tech (COBOL)	3
CIS 430	Intro to Artificial Intelligence	3
Math 371	Intro to Oper Research(WI)	3
Phys 151	Elem Coll Physics I	5
	General Elective	3
		<b>17</b>
2nd Semester		

#### Senior Year

1st Semester		
CIS 410	Information Systems II	3
CIS 450	Operating Systems (WI)	3
CORE	[Area 5 A.]	3
CORE	[Area 2 A.]	3
CORE	[Area 2 B. Literature]	3
	General Elective	4
		<b>15</b>
2nd Semester		

#### Junior Year

1st Semester		
CIS 410	Information Systems II	3
CIS 450	Operating Systems (WI)	3
CORE	[Area 5 A.]	3
CORE	[Econ 180 Amer Econ Sys]	3
	General Elective	3
		<b>15</b>
2nd Semester		

#### Senior Year

1st Semester		
CIS 330	Assembly Language	3
CIS 360	Computer Graphics	3
CORE	[Area 2 B. Literature]	3
CORE	[Hist 120 U.S. History]	3
	General Elective	4
		<b>16</b>
2nd Semester		

### Bachelor of Science in CIS - Computational Mathematics Major

#### Freshman Year

1st Semester		
Course		Hours
Comp 110	Programming I	3
Math 150	Calculus I	5
Chem 101	General Chemistry I	5
Psy 120	College Orientation	1
CORE	[Eng 101 Comp I (WI)]	3
		<b>17</b>
2nd Semester		

Comp 210	Programming II	3
Math 250	Calculus II	5
Phys 250	General Physics I	5
CORE	[Eng 102 Comp II (WI)]	3
CORE	[HPER 101 Physical Activity]	1
		<b>17</b>

#### Sophomore Year

1st Semester		
Comp 234	Bus DP Tech (COBOL)	3
CIS 335	Object Oriented Programming	3
Math 260	Calculus III	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110 U.S. History]	3
		<b>17</b>

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2nd Semester		2nd Semester		2nd Semester	
CIS 345	Computer Networks	3	CIS 350	Data Structures	3
CIS 350	Data Structures	3	CIS 310	Microcomputer Applications II	3
Math 300	Fund of Math Thought	3	CADD 210	Technical Illustration	3
CORE	[Psy 100 General Psychology]	3	CAMT 100	Intro to Mach Tool Proc	3
CORE	[HPER 103 Lifetime Wellness]	2	CORE	[Econ 180 Amer Econ System]	3
CORE	[Area 2 A.]	3			15
		17			
<b>Junior Year</b>		<b>Junior Year</b>		<b>Junior Year</b>	
1st Semester		1st Semester		1st Semester	
CIS 430	Intro to Artificial Intelligence	3	COMP 234	Bus DP Tech (COBOL)	3
Math 371	Intro to Oper Research (WI)	3	CIS 315	LAN Management	3
CORE	[Bio 101 General Biology]	4	CADD 260	Computer Aided Drafting	3
CORE	[Hist 120 U.S. History]	3	CAMT 150	Modern Manufacturing Proc	3
CORE	[Area 2 C.]	3	CORE	[Area 2 C.]	3
		16	General Elective		3
					18
2nd Semester		2nd Semester		2nd Semester	
CIS 425	Database Mgmt Systems (WI)	3	Comp 302	Information Systems I (WI)	3
Math 350	Intro to Numerical Analysis	3	CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[GB 310 Internat'l Business]	3	CORE	[Hist 110 U.S. Hist]	3
CORE	[PSc 120 Govt: US,St,Local]	3	CORE	[Area 2 A.]	3
Math	Elective	3	Professional Elective (upper division)		3
		15			17
<b>Senior Year</b>		<b>Senior Year</b>		<b>Senior Year</b>	
1st Semester		1st Semester		1st Semester	
CIS 450	Operating Systems (WI)	3	CIS 450	Operating Systems (WI)	3
Math 351	Linear Algebra	3	CIS 410	Information Systems II	3
CORE	[Econ 180 Amer Econ Sys]	3	CADD 310	Comp Prod Plan & Con Sys	3
Chem	or Phys Elective	3	CORE	[Hist 120 U.S. History]	3
General Elective		3	CORE	[Area 2 B. Literature]	3
		15			15
2nd Semester		2nd Semester		2nd Semester	
CIS 360	Computer Graphics	3	CIS 425	Database Mgmt Sys (WI)	3
CORE	[Area 2 B. Literature]	3	CORE	[Psy 100 Intro to Psy]	3
CIS	Elective	3	CORE	[Area 5 A. (upper division)]	3
Math	Elective	3	CORE	[Psc 120 Gov't:US,St,Local]	3
General Elective		3	Professional Elective (upper division)		4
		15			16
<b>Bachelor of Science in CIS - Computer Technology Major (CADD)</b>			<b>Bachelor of Science in CIS - Computer Technology Major (CAMT)</b>		
<b>Freshman Year</b>		<b>Freshman Year</b>		<b>Freshman Year</b>	
1st Semester		1st Semester		1st Semester	
Course		Course		Course	
Comp 110	Programming I	3	Comp 110	Programming I	3
Math 112	Trigonometry	3	Math 112	Trigonometry	3
CADD 110	Introduction to Drafting	3	CADD 110	Introduction to Drafting	3
CADD 115	Introduction to CADD	3	CADD 115	Introduction to CADD	3
CORE	[English 101 Comp I WI]	3	CORE	[Eng 101 Comp I WI]	3
Psy 120	College Orientation	1	Psy 120	College Orientation	1
		16			16
2nd Semester		2nd Semester		2nd Semester	
Comp 210	Programming II	3	Comp 210	Programming I	3
CADD 120	Descriptive Geometry	3	CADD 130	Machine Drafting	3
CADD 130	Machine Drafting	3	CORE	[Eng 102 Comp II (WI)]	3
CORE	[Eng 102 Comp II (WI)]	3	CORE	[Bio 101 General Biology]	4
CORE	[Bio 101 General Biology]	4	CORE	[Comm 100 Oral Comm]	3
		16			16
<b>Sophomore Year</b>		<b>Sophomore Year</b>		<b>Sophomore Year</b>	
1st Semester		1st Semester		1st Semester	
CIS 335	Object Oriented Programming	3	CIS 335	Object Oriented Programming	3
CIS 305	Microcomputer Applications I	3	CIS 305	Microcomputer Applications I	3
CADD 204	Machine Design	3	CADD 204	Machine Design	3
CORE	[HPER 101 Physical Activity]	1	CAMT 100	Intro to Mach Tool Pro	3
CORE	[HPER 103 Lifetime Wellness]	2	CORE	[HPER 101 Physical Activity]	1
CORE	[Comm 100 Oral Comm]	3	CORE	[HPER 103 Lifetime Wellness]	2
		15	CORE	[HPER 103 Lifetime Wellness]	2
			CORE	[Area 4 A.]	3
			Professional Core		3
					15
<b>Associate of Science in CIS - Information Systems/informatics Major</b>					
<b>Freshman Year</b>		<b>Freshman Year</b>		<b>Freshman Year</b>	
1st Semester		1st Semester		1st Semester	
Course		Course		Course	
Comp 110	Programming I	3	Comp 110	Programming I	3
CIS 305	Microcomputer Applications I	3	Math 131	Finite Math	3
Math 131	Finite Math	3	Psy 120	College Orientation	1
Psy 120	College Orientation	1	CORE	[Eng 101 Comp I (WI)]	3
		16	Professional Core		3
2nd Semester		2nd Semester		2nd Semester	
Comp 210	Programming II	3	Comp 210	Programming II	3
Comp 302	Information Systems I (WI)	3	CORE	[Area 2 A.]	3
CORE	[Area 2 A.]	3	CORE	[Phy 100 or Bio 101]	4-5
Professional Core			Professional Core		3
					16-17
<b>Sophomore Year</b>			<b>Sophomore Year</b>		
1st Semester		1st Semester		1st Semester	
CIS 410	Information Systems II	3	CIS 410	Information Systems II	3
CORE	[HPER 103 Lifetime Wellness]	2	CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 101 Physical Activity]	1	CORE	[Comm 100 Oral Comm]	3
CORE	[Area 4 A.]	3	CORE	[Area 4 A.]	3
Professional Core			Professional Core		3
					15

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2nd Semester		
CIS 315 LAN Management	3	
CORE [Area 4 B.]	3	
Comp/CIS Elective	3	
Professional Core	3	
General Electives	4-5	
		16-17

## Associate of Science in CIS - Computer Science Major

Freshman Year		
1st Semester		
Course	Hours	
Comp 110 Programming I	3	
Math 150 Calculus I	5	
Psy 120 College Orientation	1	
CORE [Eng 101 Comp I (WI)]	3	
CORE [Econ 180 Amer Econ Sys]	3	
CORE [HPER 103 Lifetime Wellness]	2	
	17	

2nd Semester		
Comp 210 Programming II	3	
CIS 315 LAN Management	3	
Phys 151 Elem Coll Physics I	5	
CORE [Comm 100 Oral Comm]	3	
Professional Core	3	
	17	

Sophomore Year		
1st Semester		
CIS 335 Object Oriented Programming	3	
CORE [Area 4 A.]	3	
CORE [HPER 101 Physical Activity]	1	
Professional Core	6	
General Elective	2	
	15	

2nd Semester		
CIS 350 Data Structures	3	
Comp/CIS Elective	3	
CORE [Area 2 A.]	3	
Professional Core	3	
General Electives	3	
	15	

For additional information contact:  
Dr. Jack L. Oakes  
Office: Matthews Hall 223B  
Phone: (417)625-9683

## Course Descriptions

### Computer Science (Comp)

Comp 105 (F,S) 3 hrs. cr.

#### **Introduction to Microcomputer Use**

The fundamental use of microcomputers through packaged software and the microcomputer disk operating system (DOS). The student will be introduced to word processing, spreadsheets, file management, and communications tools to aid in productivity and to develop a degree of confidence in the use of microcomputers.

Comp 110 (F,S) 3 hrs. cr.

#### **Programming I**

Introduces programming in a personal computer based environment. Fundamentals of PC hardware, DOS, and Windows, as well as programming. Emphasis on proper program style, including modularity and structured design. The language of implementation is C. Corequisite: Math 112 or above.

Comp 115 (Demand) 3 hrs. cr.

#### **Programming in BASIC**

Introduces the BASIC programming language. A service course for non-majors. Problem analysis and program design emphasized. The student will learn syntax and language features through arrays and files. Corequisite: Math 112 or above.

Comp 120 (F) 3 hrs. cr.

#### **FORTRAN**

Introduces the FORTRAN programming language and includes applications from mathematics, statistics, and engineering. Prerequisite: Math 112 or above.

Comp 210 (F,S) 3 hrs. cr.

#### **Programming II**

Continued development of the programming and problem solving skills introduced in Comp 110. Structured programming and modular design are emphasized. Includes an in-depth coverage of pointers, strings, arrays, structures, and files. Introduction to linked lists, stacks, and queues. The language of implementation is C. Prerequisite: Comp 110.

Comp 230 (S) 3 hrs. cr.

#### **Report Program Generation (RPG)**

Introduces the programming language RPG II/III/400 which is designed for quick and efficient production of business reports. Includes language syntax and practice in preparing, compiling, and executing applications of increasing complexity. Prerequisite: (Comp 110 or above) or consent of department head.

Comp 234 (F) 3 hrs. cr.

#### **Business Data Processing Techniques (COBOL)**

Methods and techniques for solving business related problems using a business oriented language (COBOL). Applications may include payroll systems, inventory control systems, billing systems, sorting techniques, and file maintenance. Prerequisite: Comp 210 or consent of department head.

Comp 298 (Demand) 1-3 hrs. cr.

#### **Selected Topics in Computer Information Science**

Each offering is a subject not normally included in another course. Prerequisites will be specified by the department in a syllabus.

Comp 301 (Demand) 3 hrs. cr.

#### **Principles of Digital Computing**

Hardware and software concepts which are pertinent to the design of digital computers. Topics covered include data representation techniques, computer circuits, assemblers, compilers, loaders, I/O programming, microprocessors, memory hierarchy, memory management, and operating systems. Prerequisite: Comp 210 or above.

Comp 302 (S) 3 hrs. cr.

#### **Information Systems I**

*(Writing Intensive)*

Introduces and develops understanding of an organization's information requirements and examines the design of information systems that facilitate its management. The criteria used to select appropriate hardware and software are investigated. Emphasis on the student's ability to analyze computer based information systems using standard analysis and design methodologies. Prerequisite: (CIS 305 or MM 237) or consent of the department head.

### Computer Information Science (CIS)

CIS 305 (F, S) 3 hrs. cr.

#### **Microcomputer Applications I**

Overview of the most common environment and software tools for the serious user of microcomputers. Hardware topics are included to allow the student to compare and select from system configurations according to their applications requirements. An introduction to the basic elements of an operating system and a graphic user interface is followed by intensive practice with the major components of an integrated software suite of applications; word processing, spreadsheets, graphics, and presentation software. A variety of data communications topics are included from the use of a local area network through connections to a world wide system. Prerequisite: (Comp 105 or higher) or (MM237) or consent of the department head.

CIS 310 (F, S) <b>Microcomputer Applications II</b> In-depth coverage of the most common environment and professional tools for the use of micro-computers. Hardware topics are included to allow the student to setup and configure a system, install peripherals, and reconcile their hardware and software combination. An operating system, graphic user interface, and local area network are examined with special emphasis on the automation of tasks and the customization of systems by programming constructs. The major components of an integrated software suite are extended to include components of multimedia and database management applications and programming. Prerequisite: (CIS 305) and (Comp 110 or elementary knowledge of programming).	3 hrs. cr.	CIS 345 (S) <b>Computer Networks</b> Introduction to the hardware and software which are integrated to form a computer network. The topics covered will include data communication hardware, the seven protocol layers of the OSI ISO reference model, public networks such as Internet, and the design and management of local area networks. Prerequisite: Comp 210.	3 hrs. cr.	CIS 410 (F) <b>Information Systems II</b> Continued development of the ability to analyze and design computer-based information systems. Includes in-depth coverage of analysis and design methodologies, computer-aided software engineering tools, and project management techniques. Teamwork is emphasized. Prerequisite: Comp 302.	3 hrs. cr.
CIS 315 (F) <b>LAN Management</b> Introduction to the design, installation, and management of enterprise local area networks. Network selection, configuration, security, backup and recovery are major topics. User rights and privileges, file and device sharing are also covered. Prerequisite: CIS 305 or MM 237 or CAMT 310 or consent of the department head.	3 hrs. cr.	CIS 346 (Demand) <b>Teaching Computer Science in Secondary School</b> Methods for teaching computer science/data processing subjects in secondary schools. It serves as part of the professional semester.	2 hrs. cr.	CIS 425 (S) <b>Database Management Systems (Writing Intensive)</b> Survey of database management theories and experience in the application of database technology. An emphasis will be placed on the relational model. Functions of database management systems, data modeling, and database design are stressed. Prerequisite: Comp 234.	3 hrs. cr.
CIS 321 (F) <b>Interactive RPG/400</b> On-line programming of business applications. Major topics include file creation and maintenance, structured methodologies, advanced features of RPG III/400, and the IBM AS/400 environment. Prerequisite: Comp 230 or consent of instructor.	3 hrs. cr.	CIS 350 (S) <b>Data Structures</b> Continued development of knowledge of data structures. This includes an in-depth coverage of pointers, linked lists, stacks, queues, trees, and graphs. Special emphasis is placed on the coverage of algorithms that are designed to efficiently manipulate these structures and techniques for selecting the most appropriate data structures for a given application. The language of implementation is C. Prerequisite: Comp 210.	3 hrs. cr.	CIS 430 (F, ODD) <b>Introduction to Artificial Intelligence</b> Introduces the process of developing intelligent computer software. AI topics which are covered include knowledge abstraction and representation, heuristic search techniques, expert systems, language processing, machine learning, and meta-programming. Prerequisites: CIS 350 and Math 300.	3 hrs. cr.
CIS 330 (S) <b>Assembly Language</b> Introduction to low-level machine architecture and assembly language programming using the IBM PC. Includes data representation, instruction set, program logic, and problem solving. In addition to the assembly, linking, and execution of programs; debugging, optimization, and interfacing to high-level languages will be practiced. Prerequisite: One 200 level programming class.	3 hrs. cr.	CIS 360 (S, ODD) <b>Computer Graphics</b> Interactive computer graphics programming including windowing, clipping, two and three dimensional transformations, perspective projections, curved surface modeling, light, and color. The functional capabilities of computer graphics systems and their applications will be covered. Prerequisite: Math 150 and Comp 210.	3 hrs. cr.	CIS 450 (F) <b>Operating Systems (Writing Intensive)</b> Fundamental concepts of operating system design. Emphasis on identifying problems an operating system must solve and considering the range of alternative solutions which may be implemented. Topics include process management, memory management, processor management, auxiliary storage management, and security. The UNIX operating system is highlighted. Prerequisite: CIS 350.	3 hrs. cr.
CIS 334 (S) <b>Advanced Structured COBOL</b> On-line programming of business applications utilizing CICS. File creation and maintenance (VSAM), structured methodologies, and advanced features of COBOL are major topics. Prerequisite: Comp 234 or consent of instructor.	3 hrs. cr.	CIS 400 (Demand) <b>Computer Colloquium</b> Students have the opportunity to make and attend individual presentations on computer topics of current and special interest. These topics are researched and organized by the student presenters and should make use of the best available software and media tools. Supplemental topics are presented by faculty and invited area computer professionals. May be repeated once for credit. Meets 2 hours per week for 1 hour credit. Prerequisite: Upper division standing.	1 hr. cr.	CIS 460 (Demand) <b>Programming Languages</b> Mechanisms and formality behind language structure, particularly as applied to some of the more modern and esoteric computer programming languages. A formal approach to syntactic analysis, grammars, and parsing techniques will lead into an introduction to automata and their relation to language and problem solving. Several diverse programming languages will be examined with example programs to be written in each. Prerequisite: Two programming language courses.	3 hrs. cr.
CIS 335 (F) <b>Object Oriented Programming</b> Introduction to object oriented programming, a computer programming methodology in which data and operators are strongly linked into named classes whose instances are called objects. Topics covered include object management, encapsulation, polymorphism, inheritance, type extensibility, and object oriented problem analysis and design. The language of implementation is C++. Prerequisite: Comp 210.	3 hrs. cr.	CIS 401 (F, S) <b>Internship in Computer Information Science</b> A limited number of computer information science students may serve an internship of 15 to 20 hours per week for up to 16 weeks. Credit hours will be arranged through the coordinator of the internship program. The intern will work for a local, cooperating firm in a production data processing environment gaining valuable experience in programming and/or systems analysis and design to supplement course work. The on-site work will be supervised by a professional employee of the firm and overseen by an MSSC faculty member. Prerequisite: Upper division standing, department approval, and an overall GPA of 3.00.	3-8 hrs. cr.	CIS 498 (Demand) <b>Seminar in Computer Information Science</b> Addresses emerging topics in computer science and management information systems. Each offering will be on a subject not normally included in another course. Prerequisite: Upper division standing with an overall GPA of 3.0 or above. Other prerequisites may be specified in each course syllabus.	1-3 hrs. cr.
				CIS 499 (Demand) <b>Independent Study</b> An independent study course is structured by the adviser with approval of the department head. Prerequisite: Upper division standing with an overall GPA of 3.0 or above. Registration in the course must be approved by the adviser, the department head, and the dean of the school.	1-3 hrs. cr.

## Criminal Justice Administration

Justice Center 109, 625-9302

**Faculty** Wolf - Director, Mosher, Owen, Richards, Scott, Spurlin, Terry, Whittle, Williams

The department offers two degrees, the bachelor of science in criminal justice administration and the associate of science in law enforcement.

The criminal justice activities of the College are a vital and working part of the law enforcement effort in Southwest Missouri and adjacent states. The Regional Criminalistics Laboratory is housed in the Justice Center building and actual evidence is evaluated by the criminalists there who testify in court as expert witnesses as needed. Also housed in the academy is a complete photographic laboratory, with both automated and color equipment.

Missouri law requires new officers to obtain "basic training" in a certified "law enforcement academy." Missouri Southern operates the regional academy for this portion of Missouri and many students choose to take their Basic Law Enforcement Academy Training at the Justice Center while attending college, to make them even more employable upon graduation.

Visitors to the modern Mills Anderson Justice Center building are usually impressed by the constant and varied activities going on there. College students mingle in classes and on breaks with working law enforcement officers from the community, paramedics, emergency medical technicians, firefighters and others taking training in the building.

Another unusual feature of the building is the modern indoor firearms range in the basement, where police officers, students and others are introduced to weapons skills under the guidance of qualified range masters. And, while there are other criminal justice programs in the nation, this one is perhaps unique in the combination of the many "real world" activities going on with which the College serves the community in a practical sense. This works to the advantage of the pre-service college student who is able to take advantage of the facilities and expertise of the faculty and staff working at these important jobs. Missouri Southern's graduates generally return for special seminars and training to keep them updated on

recent changes in technology and legal subjects. The Justice Center is a busy place with interested and challenged students working with experienced and dedicated staff.

A bachelor's degree in criminal justice administration prepares the student for many different graduate programs such as law school. It also prepares the student for careers in law enforcement, juvenile justice, corrections, probation and parole, private or industrial security, federal investigative agencies and related positions. Many of these positions have requirements relating to physical condition and integrity of personal back-ground with which the student should become familiar.

The College also offers the associate of science in law enforcement page 165.

### Bachelor of Science in Criminal Justice Administration

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Criminal Justice Requirements</b>	<b>21</b>
LE 100 Introduction to Criminal Justice	3
LE 150 Interview and Report Writing	3
LE 210 Criminal Procedures	3
LE 250 Criminal Law	3
Select one from the following:	
CJAd 230 Introduction to Security	3
CJAd 325 Physical Security	3
CJAd 330 Loss Prevention Techniques	3
	3

Select one from the following:	
CJAd 320 Probation and Parole	3
CJAd 412 Correctional Practices (WI)	3
	3

Select one from the following:	
CJAd 410 Juvenile Procedures	3
CJAd 411 Juvenile Corrections (WI)	3
	3

The student must also select a minimum of 26 credit hours from the following list of major course electives:(Students may not count classes that were selected in the above area.)

LE 110 Police Organization and Administration	2
LE 180 Basic Law Enforcement Academy*	12
LE 200 Criminal Investigation I	3
LE 225 Patrol Procedures	3
LE 245 Law Enforcement Photography	3

LE 260	Legal & Technical Aspects of Firearms	3
LE 290	Police Supervision and Management	3
LE 298	Special Topics*	1-8
CJAd 230	Introduction to Security	3
CJAd 210	Basic Photography	3
CJAd 325	Physical Security	3
CJAd 300	Criminal Investigation II (Writing Intensive)	3
CJAd 301	International Justice Systems	3
CJAd 310	Traffic Accident Invest and Control	3
CJAd 320	Probation and Parole*	3
CJAd 330	Loss Prevention Techniques	3
CJAd 331	Administration of Security Systems*	3
CJAd 350	Fish and Game Enforcement	3
CJAd 400	Homicide Investigation*	3
CJAd 410	Juvenile Procedures*	3
CJAd 411	Juvenile Corrections* (WI)	3
CJAd 412	Correctional Practices	3
CJAd 430	Family Violence	3
CJAd 440	Victims and the Criminal Justice System	3
CJAd 450	Criminal Evidence*	3
CJAd 490	Internship in Criminal Justice Administration*	4-8
CJAd 498	Seminar in Criminal Justice Administration*	1-3
CJAd 499	Independent Study*	1-3

\*See course descriptions for prerequisites.

The major in criminal justice administration also requires the student to complete 15 hours of classwork in the supportive area:

Soc 110 Intro to Sociology	3
Psy 100 General Psychology	3
Computer Literacy Requirement	3
Adviser Approved Electives	6

15

General electives selected with adviser approval among which must be sufficient "upper division" courses (courses numbered at the 300 or 400 level) to complete the College's requirement for a minimum 40 upper-division hours. A minor is highly recommended.

15

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### Minor in Criminal Justice Administration

The minor consists of 21 hours of course work which includes: LE 100 Introduction to Criminal Justice, LE 210 Criminal Procedures, LE 250 Criminal Law and 12 additional hours of LE or CJAd courses, nine of which must be upper division.

### Suggested Order of Study

#### Bachelor of Science Degree Major Code 2105 Criminal Justice Administration Major

##### Freshman Year

###### 1st Semester

Course		Hours
LE 100	Intro to Law Enforcement	3
LE 110	Police Org & Admin	2
CORE	[Eng 101 Comp I]	3
Computer Literacy Requirement		3
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 120 College Orient]	1
CORE	[HPER 101 Physical Activity]	1
		16

###### 2nd Semester

LE 150	Interview and Report Writing	3
CORE	[Eng 102 ComplI]	3
CJAd	Required course	3
Math 110	Intro College Math or higher	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetime Wellness]	2
		18

##### Sophomore Year

###### 1st Semester

LE 210	Criminal Procedures	3
CORE	[Hist 110 U.S. History]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Soc 110 Intro to Sociology]	3
CJAd	Required Course	3
		17

###### 2nd Semester

LE 250	Criminal Law	3
LE 290	Police Supvsn & Management	3
Psy 100	[General Psychology]	3
CORE	[Econ 180 Amer Econ Sys]	3
Elective	[A minor is suggested]	3
CORE	[Literature]	3
		18

##### Junior Year

###### 1st Semester

CJAd	Required Course	3
CORE	Elective [International Stu]	3
Elective	[Supportive Area]	3
CORE	[PSc 120 Gov't: U.S/Sta/Loc]	3
CORE	[Elective-Fine Art]	3
		15

###### 2nd Semester

CJAd	Elective	3
CORE	[Fine Art]	3
Elective	Supportive Area	3
CORE	[Hist 120 U.S. History]	3
Elective	[A minor is suggested]	3
		15

##### Senior Year

###### 1st Semester

CJAd	Elective	3
CJAd	Elective	3
CJAd	Elective	3
Elective	[A minor is suggested]	3
Elective	[A minor is suggested]	3
		15

2nd Semester		
CJAd	Elective	3
CJAd	Elective	3
CJAd	Elective	3
Elective	[A minor is suggested]	3
Elective	[A minor is suggested]	3
		15

[Department Recommendations]

All electives must be approved by a CJAd adviser prior to enrollment.

For additional information contact:

Dr. C. Blake Wolf  
Office: Justice Center 101  
Phone: 625-9302

### Juvenile Justice

Justice Center 109, 625-9302

Faculty Wolf - Head, Scott, Williams, Tate, Gubera

A minor in Juvenile Justice is designed to prepare students who are seeking a career in the Juvenile Justice System. Adjudication and after-care of the juvenile offender as well as child protection are the primary emphases of a minor in Juvenile Justice.

Students majoring in criminal justice, psychology, or sociology who have a desire to work in the Juvenile Justice system will find this minor beneficial. Juvenile officer, child abuse investigator, group home counselor, and court-appointed *guardian ad litem* are just a few of the employment options available to a graduate with a Juvenile Justice minor.

A minor in Juvenile Justice consists of 24 credit hours. Students must have a faculty adviser for a minor in Juvenile Justice.

### Minor in Juvenile Justice

		Semester Hours
LE 250	Criminal Law	3
CJAd 410	Juvenile Procedures	3
CJAd 411	Juvenile Corrections	3
CJAd 320	Probation and Parole	3
Soc 312	Juvenile Delinquency	3
Soc 406	Child Abuse	3
Psy 300	Child Development	3
Psy 301	Adolescent Psychology	3
		24

For additional information contact:

Dr. C. Blake Wolf  
Office: Justice Center 101  
Phone: 625-9302

### Course Descriptions

CJAd 230 (S)

3 hrs. cr.

#### Introduction to Security

Overview of the security industry and its role in loss prevention. Public versus private security roles for retail business, industrial and governmental protection. Basic principles such as target hardening and current problems.

For additional information contact:

Dr. C. Blake Wolf  
Office: Justice Center 101  
Phone: 625-9302

# 160 / Criminal Justice, Dental Hygiene

CJAd 210 (F, S) <b>Basic Photography</b> Lecture and laboratory procedures for use of cameras, lenses, developing negatives and prints and enlarging.	3 hrs. cr.	CJAd 350 (S) <b>Fish and Game Enforcement</b> Problems and procedures encountered and used by conservation enforcement officers. Laws and enforcement procedures.	3 hrs. cr.	CJAd 498 (Demand) <b>Seminar in Criminal Justice</b> A survey of current advances in the field. Precise topics to be announced, for upper division majors in CJAd or those who have completed the A.S. degree in law enforcement. Prerequisite: permission of instructor.	1-3 hrs. cr.
CJAd 298 (Demand) <b>Special Topics in Criminal Justice Administration</b> Course content varies and is designed to meet current needs and interests in the rapidly changing field of criminal justice administration. Precise topics are announced with prerequisites stipulated in the course syllabus.	1-8 hrs. cr.	CJAd 400 (S) <b>Homicide Investigation</b> Legal and criminalistics concepts and procedures for the medico-legal investigation of death due to natural, accidental, suicidal or criminal cause. Prerequisite: LE 200 or permission.	3 hrs. cr.	CJAd 499 (Arr) <b>Independent Study in Criminal Justice</b> Individually directed study for advanced majors in area of criminal justice selected with adviser approval. Proposal must be approved by program director and school dean. Prerequisite: 3.5 GPA in major area or permission.	1-3 hrs. cr.
CJAd 300 (S) <b>Criminal Investigation II</b> <i>(Writing Intensive)</i> Major case investigative methods, sources of information, development of leads, methods applicable to organized crime and specific offenses.	3 hrs. cr.	CJAd 410 (F) <b>Juvenile Procedures</b> Juvenile and family court procedures and substantive law as applied to the youthful offender. Procedures for juvenile officers such as collection of evidence, taking into custody and development of the case. Prerequisite: LE 210 or permission.	3 hrs. cr.		
CJAd 301 (F) <b>International Justice Systems</b> A study of justice systems around the world, comparing them to America's justice system. Course considers the three important components of a justice system; police, courts, and corrections. Includes cultural differences of the countries studied as they relate to their justice system.	3 hrs. cr.	CJAd 411 (S) <b>Juvenile Corrections</b> <i>(Writing Intensive)</i> Overview of the design and legal requirements of juvenile correctional institutions including an analysis of the juvenile interstate compact laws and management principles of juvenile correctional institutions. Prerequisite: Soc 110.	3 hrs. cr.		
CJAd 310 (F) <b>Traffic Accident Investigation and Control</b> Theory and techniques for investigation and reducing occurrence of motor vehicle accidents, collection and evaluation of physical evidence reporting.	3 hrs. cr.	CJAd 412 (F) <b>Correctional Practices</b> <i>(Writing Intensive)</i> History of corrections as it relates to correctional practices. In-depth study of the rights of the incarcerated inmate as well as the powers and duties of the correctional officer. Prerequisites: LE 100 or permission.	3 hrs. cr.		
CJAd 320 (S) <b>Probation and Parole</b> Study of presentence investigation methods, predicting parole behavior, supervisory practices, legal aspects, the use of amnesty and pardons. Prerequisites: LE 100, Soc 110 or instructor's permission.	3 hrs. cr.	CJAd 430 (S) <b>Family Violence</b> Introduces the dynamics of family violence from the perspective of law enforcement. Examines the relationships between victims, offenders and other family members. Focuses on these relationships and the challenge they pose to the criminal justice system. Special attention on the complicated justice system which is increasingly intervening in these family systems.	3 hrs. cr.		
CJAd 325 (S) <b>Physical Security</b> Physical aspects of the security industry and its role in loss prevention for retail business, industrial and governmental protection. Consideration of barriers and perimeter protection, alarm systems, computer and hazardous materials protection and survey techniques.	3 hrs. cr.	CJAd 440 (F) <b>Victims and the Criminal Justice System</b> Introduces the study of victimization. Examines the relationship between victims and the criminal justice system.	3 hrs. cr.		
CJAd 330 (F) <b>Loss Prevention Techniques</b> Security techniques in loss prevention for retail business, industry, governmental protection, hotel and motel, hospital, school, transit systems and utilities.	3 hrs. cr.	CJAd 450 (S) <b>Criminal Evidence</b> Rules of evidence, admissibility, presumptions, inferences, burden of proof and exceptions to the hearsay rule. Prerequisite: LE 210, LE 250.	3 hrs. cr.		
CJAd 331 (Demand) <b>Administration of Security Systems</b> The security administrator's role in business, industrial and governmental protection. Organizing, training, managing and designing security programs. Prerequisites: CJAd 230, CJAd 325 or CJAd 330 or instructor's permission.	3 hrs. cr.	CJAd 490 (Arr) <b>Internship in Criminal Justice</b> Extensive practical experience with an area criminal justice agency, subject to individual committee approval. Not open to those who have taken LE 180. Prerequisite: Junior or senior standing, CJAd major, department approval, overall GPA 2.5 and a CJAd GPA 3.2.	4-8 hrs. cr.		



Ummel Technology Building 101, 625-9379

**Faculty** Scorse - Director, Karst, Strait, White

The dental hygienist is a dynamic health care professional who is the only member of the dental health team, other than the dentist, licensed to provide direct care to the patient. The diverse duties of the dental hygienist are rewarding and include oral prophylaxis (cleaning); exposing, processing and mounting radiographs; collecting and evaluating medical history information; performing head and neck screening examinations; and applying agents for the prevention of decay. Other important and challenging functions include assessing the condition of the periodontium (supporting structures of the teeth) and providing periodontal (gum) therapy including root planing and curettage, applying desensitizing and antimicrobial agents and administering local infiltration anesthesia and nitrous oxide/oxygen analgesia. The dental hygienist also acts as a dental health educator and is responsible for teaching patients to prevent dental disease and for providing nutritional counseling.

Dental hygiene employment opportunities are numerous and vary greatly. They include general practice and specialty dental offices; federal, state, county and city health clinics; public schools; hospitals; dental schools; industrial clinics; the armed services; and research institutions.

Missouri Southern offers an associate of science degree in dental hygiene. Upon satisfactory completion, graduates are eligible to take the National Board Examination and practical examinations required for licensure in Missouri and other states. This program is accredited by the American Dental Association.

Admission to Missouri Southern does not automatically grant admission to the dental hygiene program. In addition to meeting admission requirements for the College, candidates must apply for admission to the department of dental hygiene prior to April 1. Applications are reviewed by the Selection Committee for Dental Hygiene and consideration is given to demonstrated scholastic ability and test scores, references and results of a personal interview with the dental hygiene faculty. Applicants are encouraged to submit the necessary information by March 1 so that interview appointments can be scheduled for the middle of March.

Evidence of satisfactory completion of the prerequisites, which include general zoology, intermediate algebra (or higher algebra) and English composition, should be presented. Individuals may be accepted if they have not completed these prerequisites; however, admission is contingent upon the completion of these courses with a "C" or above during the summer prior to entrance into the program.

Enrollment is limited and all applicants are admitted contingent upon the completion of physical and dental examinations and the rendering of an acceptable health status. Students are admitted to the dental hygiene program only in the fall of each year.

Interested individuals are encouraged to contact the Director of Dental Hygiene for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are minimum costs incurred by dental hygiene students: \$1000 for uniforms, safety glasses, gloves, books and graduation pins; \$1000 for instruments; approximately \$600 for licensure exams which will vary depending on state(s) in which license is desired; approximately \$100 for ADHA student membership dues and liability insurance; and variable expenses for transportation to off campus clinical training sites and meals.

The associate of science in dental hygiene requires a minimum of 79 credit hours in addition to prerequisite courses. All courses in the suggested order of study must be completed in the prescribed sequence. Course grades of "C" or above in dental hygiene and supporting science courses are necessary for retention in the dental hygiene program.

## Associate of Science Degree in Dental Hygiene

	Semester Hours	
<b>Core Requirements (p. 41)</b>	<b>25</b>	
<b>(10 hours satisfied by prerequisites)</b>		
<b>Dental Hygiene Requirements</b>	<b>61</b>	
DH 101 Fundamentals of Dental Hygiene I	4	
DH 102 Fundamentals of Dental Hygiene II*	4	
DH 140 Dental Morphology	1	
DH 150 Oral Histology and Embryology	3	
DH 160 Dental Radiology	2	
DH 190 Clinical Dental Hygiene I*	2	
DH 200 Dental Health Education	3	
DH 210 Perio-Pathology	4	
DH 220 Dental Materials	3	
DH 290 Clinical Dental Hygiene II*	5	
DH 310 Nutrition	2	
DH 320 Pharmacology	2	
DH 330 Ethics and Community Dentistry*	3	
DH 390 Clinical Dental Hygiene III*	5	
Bio 231 Medical Microbiology*	5	
Bio 240 Radiation Biology*	3	
Bio 306 Human Physiology and Anatomy*	5	
Chem 100 Introductory Chemistry*	5	
Soc 110 Intro to Sociology	3	
	<b>89</b>	

\*See course descriptions for prerequisites

## Suggested Order of Study

### Associate of Science

Major Code 5203

### Dental Hygiene Major

#### Prerequisites

Bio 121 General Zoology	4
CORE [Eng 101 Comp I]	3
Math 030 Inter Algebra (or higher)	3
	<b>10</b>

#### Freshman Year

Fall Semester		Hours
DH 101 Fund of Dental Hygiene I	4	
DH 140 Dental Morphology	1	
DH 150 Oral Histology & Embr	3	
Bio 306 Human Phys & Anatomy	5	
Chem 100 Introductory Chemistry	5	
	<b>18</b>	

#### Spring Semester

DH 102 Fund of Dental Hygiene II	4
DH 160 Dental Radiology	2
DH 220 Dental Materials	3
DH 310 Nutrition	2
Bio 231 Medical Microbiology	5
Bio 240 Radiation Biology	3

#### Summer Session

DH 190 Clinical Dental Hygiene I	2
DH 210 Perio-Pathology	4
	<b>6</b>

#### Sophomore Year

Fall Semester		
DH 200 Dental Health Education	3	
DH 290 Clinical Dental Hygiene II	5	
DH 320 Pharmacology	2	
Psy 100 General Psychology	3	
CORE [Comm 100 Oral Comm]	3	
CORE [HPER 103 Lifetm Wellness]	2	
	<b>18</b>	

#### Spring Semester

DH 330 Ethics & Comm Dentistry	3	
DH 390 Clinical Dental Hygiene III	5	
CORE [Humanities or Fine Arts]	3	
CORE [Hist 110/Hist 120 /PSc 120]	3	
CORE [HPER 101 Physical Activity]	1	
Soc 110 Intro to Sociology	3	
	<b>18</b>	

[Department Recommendation]

For additional information contact:

Sandra A. Scorse, D.D.S.

Office: Technology Building 102

Phone: 625-9379 / 625-9600 / 625-9711

## Course Descriptions

### DH 101 (F)

4 hrs. cr.

### Fundamentals of Dental Hygiene I

Introduction to fundamental theories, principles and procedures necessary to provide dental hygiene services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week.

### DH 102 (S)

4 hrs. cr.

### Fundamentals of Dental Hygiene II

Continuation of DH 101 with further enrichment of skills necessary to perform preventive oral health services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: DH 101 with minimum grade of "C" or instructor's permission.

### DH 140 (F)

1 hr. cr.

### Dental Morphology

Detailed study of morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hr. lecture per week.

### DH 150 (F)

3 hrs. cr.

### Oral Histology and Embryology

Study of the gross and microscopic development of the teeth, supportive structures of the teeth and embryology and anatomy of head and neck region. Two hrs. lecture, 3 hrs. lab per week.

# 162 / Environmental Health

DH 160 (S) 2 hrs. cr.

### Dental Radiology

Theory and technique of exposing, developing, mounting and care of dental radiographs. Interpretation of radiograph findings is discussed, principles of radiation safety are emphasized. One hr. lecture, 4 hrs. lab per week.

DH 190 (Summer) 2 hrs. cr.

### Clinical Dental Hygiene I

Introduction to clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, periodontal assessment, exposing and processing radiographs, presenting patient education, preventive applications, and charting the oral cavity. 16 hours lab per week, 1 hour of lab will be used per week in clinical DH I for content and organizational review of course. Prerequisite: DH 102 with minimum grade of "C" and CPR Certification course C.

DH 200 (F) 3 hrs. cr.

### Dental Health Education

Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations, practical experience in public schools and community groups and experience in providing dental health education to mentally and physically handicapped and geriatric patients. Three hrs. lecture per week.

DH 210 (Summer) 4 hrs. cr.

### Perio-Pathology

Lecture periods are devoted to the study of oral pathological conditions, including etiology, degenerative process, inflammation and immunity. Etiology, classification, treatment and prevention of periodontal disease is stressed. Four hrs. lecture per week.

DH 220 (S) 3 hrs. cr.

### Dental Materials

Information about various dental materials. Students learn to make alginate impressions, plaster models and manipulate other materials. Required course for dental hygiene curriculum. Prerequisite: DH 101 Fundamentals of Dental Hygiene "I" with a "C" or above or instructor's permission. Two hrs. lecture, 2 hrs. lab per week.

DH 290 (F) 5 hrs. cr.

### Clinical Dental Hygiene II

Continuation of DH 190 with added responsibilities as skills develop. Lecture information on advanced dental hygiene techniques and techniques for local anesthesia and pain control. Practical experience in infiltration anesthesia during the laboratory session. Multicultural experience is gained through rotations in extended campus facilities. One hr. lecture, 16 hrs. clinical lab per week. Prerequisites: DH 190 with minimum grade of "C" or instructor's permission.

DII 310 (S) 2 hrs. cr.

### Nutrition

Nutrition and diet as related to dental health, biochemistry of digestion and the utilization of nutrients. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hrs. lecture per week.

DH 320 (F) 2 hrs. cr.

### Pharmacology

Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hrs. lecture per week.

DH 330 (S) 3 hrs. cr.

### Ethics and Community Dentistry

Professional ethics and commitment, professional organizations, state practice acts and practical consideration of methods and problems associated with operating and maintaining a dental practice. Definition and identification of the scope of public and dental public health. Consideration of philosophy; health legislation; federal, state and local health programs; needs and demands for dental care; and mechanisms for financing dental care. Three hrs. lecture per week. Prerequisites: DH 200 with minimum grade of "C."

DH 390 (S) 5 hrs. cr.

### Clinical Dental Hygiene III

Continuation of DH 290. Clinical experience in advanced clinical procedures and dental assisting procedures, including experience in extended campus facilities. Principles of four-handed dentistry in the lecture portion and discussion of the eight recognized dental specialties including their relationship to preventive dentistry. One hr. lecture, 16 hrs. lab week. Prerequisite: DH 290 with minimum grade of "C" or instructor's permission.

### Option II

This bachelor of science degree requires three academic years of study at Missouri Southern preceded or followed by successful completion of the Hazardous Materials Management program at Crowder College, Neosho, Mo. At Missouri Southern the student pays the same fees as any other student if residency requirements have been met.

### Option III

This bachelor of science degree requires four complete academic years at Missouri Southern, including an internship. Plans for the internship should be made with the student's adviser during the spring semester of the junior year.

### Associate of Science

The associate of science degree is in affiliation with the Environmental Resource Center of Crowder College, Neosho, Mo. and the Environmental Water Technology Program at Fort Scott Community College, Fort Scott, KS. Students qualify for the associate of science degree by completing the following: (1) Missouri Southern requirements that are basic to all combined associate degrees, (2) specific courses in Environmental Health Technology, and (3) approved course of study in either Water and Wastewater Technology or Hazardous Materials Technology at Crowder College, Neosho, Mo., or Environmental Water Technology at Fort Scott Community College, Fort Scott, Kan. The student may complete the requirements at either school first.

## Environmental Health Technology

Reynolds Hall 313A, 625-9731

**Faculty** Adams - Coordinator, Fletcher, Tillman

The College offers the four-year bachelor of science in environmental health with three options, and a two-year associate of science degree.

### Bachelor of Science

#### Option I

This bachelor of science degree requires three academic years of study at Missouri Southern preceded or followed by successful completion of the Water and Wastewater program at Crowder College, Neosho, Mo., or the Environmental Water Technology program, with emphasis in water and wastewater, at Fort Scott Community College at Fort Scott, Kan. At Missouri Southern the student pays the same fees as any other student if residency requirements have been met.

### Bachelor of Science Environmental Health Technology Major

	Semester Hours
<b>Core Requirements (p. 41) 51*</b>	39
<b>Biology and Environmental Health Core</b>	34
Bio 101 General Biology	4
Bio 112 Botanical Survey	3
Bio 122 Zoological Survey	3
Bio 231 General & Medical Microbiology	5
Bio 290 Research Methods in Biology	2
Bio 306 Human Phys & Anatomy	
OR	
Bio 431 Animal Physiology	5
EHT 312 Environmental Biology	4
EHT 370 Environmental Health	4
EHT 372 Environmental Reg and Program Adm	4
<b>Mathematics and Physical Science Requirements</b>	30
Math 140 College Algebra and Trigonometry	5
Chem 101 General Chemistry I	5

Chem 102	General Chemistry II	5
Chem 201	Analytical Chemistry I	5
Chem 300	Introduction to Modern Organic Chemistry	5
Phys 151	Elementary College Physics	5
<b>College Computer Requirement</b>		

Bio 303	Computer Applications in Biology	
OR		
Approved Computer Course		2-3

<b>Option I</b>		
<b>Water and Wastewater Management</b>		
Water and Wastewater Technical School		30
Upper Division Hours Awarded		20
	<b>135-136</b>	

<b>Option II</b>		
<b>Hazardous Materials Management</b>		
Hazardous Materials Management		30
Upper Division Hours Awarded		20
	<b>135-136</b>	

<b>Option III</b>		
<b>Institutional and Community Health</b>		
Select approved courses to complete a 30 hr. block from the following. The block must include EHT 450 Internship in Environmental Health.		30
Bio 240 Radiation Biology		3
Bio 361 Parasitology		4
Bio 402 General Ecology		4
Bio 481 Aquatic Ecology		4
EHT 298 Selected Topics in Environmental Health	1-8	
EHT 373 Solid Waste Management	2	
EHT 375 Vector Control	2	
EHT 377 Community Sanitation	4	
EHT 380 Epidemiology	2	
EHT 385 Food, Milk and Consumer Protection	4	
EHT 450 Internship in Environmental Health	1-8	
EHT 483 Environmental Assessment	2	
EHT 498 Seminar in Environmental Health	1-3	
EHT 499 Problems in Environmental Health	1-3	
Geol 300 Environmental Geology	4	
	<b>135-136</b>	

Majors satisfy the Writing Intensive (WI) requirement by completing ENG 101 and 102 (or their equivalent) and three WI classes in environmental health, biology or a supporting area. See page 41 for Writing Intensive requirements.

Math 130 + Math 112 is equivalent to Math 114.

\*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hrs. of the Core Curriculum.

## Associate of Science in Environmental Health Technology

	Semester Hours
<b>Core Requirements (p. 41)*</b>	<b>21-22</b>
<b>Biology &amp; Environmental Health Core</b>	<b>8-9</b>
Bio 101 General Biology	4
Bio 231 General & Medical Microbiology	5
OR	
EHT 312 Environmental Biology (if WWTS completed)	4
Physical Science Requirement	10
Chem 101 General Chemistry I	5
Chem 102 General Chemistry II	5
Water and Wastewater Programs	
OR	
Hazardous Materials Management	30
	<b>69-71</b>

\* 4 hrs. satisfied by required biology.

\*\*This work may be taken prior to entering Southern or after completing work on the Crowder College campus.

## Bachelor of Science Degree

Major Code 1299

### Environmental Health Technology Major

#### Freshman Year

1st Semester

Course		Hours
Bio 101	General Biology	4
CORE	[American Cultural Stu]	3
CORE	[Eng 101 Comp I]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Psy 120 College Orient]	1
Math 140	College Algebra & Trig	5
		<b>17</b>

2nd Semester

Bio 112	Botanical Survey (Bio 101)	3
CORE	[Eng 102 Comp II]	3
CORE	[American Cultural Studies]	3
CORE	[Humanities and Fine Arts]	3
CORE	[HPER 103 Lifetm Wellness]	2
CORE	[Humanities and Fine Arts]	3
		<b>17</b>

Summer Session

CORE	[Behavioral Science]	3
CORE	[American Cultural Stu]	3

#### Sophomore Year

1st Semester

Bio 122	Zoological Survey (Bio 101)	3
Bio 231	Gen/Med Microbio (Bio 101)	5
Chem 101	Gen Chemistry I (Math 140)	5
CORE	[Comm 100 Oral Comm]	3

**16**

2nd Semester

Chem 102	Gen Chem II (Chem 101)	5
Bio 303	Comp Appl in Biology (consent)	
OR		
Approved computer course		2-3

**15-16**

Summer Session

CORE	[International Cultural Stu]	3
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#### Junior Year

1st Semester

Bio 306	Hum Phys & Anat (Bio 121 or consent)	
OR		

Bio 431	Animal Physiology (Bio 331)	5
EHT 312	Environmental Biology (Bio 101 & consent)	4
Chem 201	Analytical Chemistry I (Chem 102)	5
CORE	[Humanities & Fine Arts]	3

**17**

[ Department Recommendations ]

For additional information contact:

Dr. Wayne Adams

Office: Reynolds Hall 313A

Phone: 625-9731

or

Mr. Michael Fletcher

Office: Reynolds Hall 303

Phone: 625-9765

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2nd Semester		
Bio 290	Res Meth in Bio (Bio 112/122)	2
Chem 300	Intro to Mod Org Chem (Chem 102)	5
EHT 372	Env Reg & Pro Adm (EHT 312 & 370 or consent)	4
EHT 370	Environmental Health (Bio 231 or consent)	4
		15

## **Senior Year**

## **Option I Water and Wastewater Management**

Three trimesters in the Water and Wastewater Program at Crowder College, or the Environmental Water Technology Program at Fort Scott Community College. This work may be taken prior to entering Missouri Southern.

## **Option II Hazardous Materials Management**

<b>Option A: Hazardous Materials Management</b>	<b>30</b>
<b>Hazardous Materials Management</b>	<b>30</b>
<b>Upper Division Hours Awarded</b>	<b>20</b>

### **Option III Institutional and Community Health**

Select approved courses to complete a 30 hr. block from the following. The block must include EHT 450 Internship in Environmental Health.

ENV 130	Internship in Environmental Health	
Bio 240	Radiation Biology (Chem 101)	3
Bio 361	Parasitology (Bio 122)	4
Bio 402	General Ecology (Bio 112 & 122)	4
Bio 481	Aquatic Ecology (Bio 122)	4
EHT 298	Sel Topics in Envir Health (Bio 101, 112 & 122)	1-8
EHT 373	Solid Waste Management (EHT 312 & 370 or consent)	2
EHT 375	Vector Control (EHT 312 & 370 or consent)	2
EHT 377	Community Sanitation (EHT 312 & 370 or consent)	4
EHT 380	Epidemiology (Bio 290, EHT 312 & 370 or consent)	2
EHT 385	Food, Milk & Consumer Protection (Bio 231, EHT 312 & 370 or consent)	4
EHT 450	Internship in Environmental Health (consent)	1-8
EHT 483	Environmental Assessment (EHT 312 & 370 or consent)	2
EHT 498	Seminar in Environmental Health (consent)	1-3
EHT 499	Problems in Environmental Health (consent)	1-3
EHT 300	Environmental Geology (Phys 100)	4

#### [Departmental Recommendations]

### (Prerequisites)

Program must satisfy Writing Intensive (WI) requirements page 41.

For additional information contact:

Dr. Wayne Adams

Office: Reynolds Hall 313A

Phone: 625-9731

or

Mr. Michael Fletcher

Office: Reynolds H

## *Course Descriptions*

<b>EHT 298</b>	1-8 hrs. cr.	
<b>Selected Topics in Environmental Health</b>		
Special topics in environmental health not normally included in another course. Prerequisite: Bio 112 and 122.		
 <b>EHT 300 (Demand)</b>	 4 hrs. cr.	
<b>Environmental Geology</b>		
Introduction to man's relationship to the earth's environment. Limitations of natural resources and future projections are considered along with man's demands on the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisite: Phys 100. (Double listed in geology.)		
 <b>EHT 312 (F)</b>	 4 hrs. cr.	
<b>Environmental Biology</b>		
(Writing Intensive)		
Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2 hr. lab per week. Prerequisite: Bio 112 and 122, or permission. (Double listed in biology)		
 <b>EHT 370 (Demand)</b>	 4 hrs. cr.	
<b>Environmental Health</b>		
Contemporary environmental health problems and public protection measures, including public health disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 231 or permission. (Double listed in biology.)		
 <b>EHT 372 (F, Odd)</b>	 4 hrs. cr.	
<b>Environmental Regulations and Program Administrations</b>		
Study of regulations which constitute the basis for management of environmental agencies and organization of environmental health agencies. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.		
 <b>EHT 373 (S, Even)</b>	 2 hrs. cr.	
<b>Solid Waste Management</b>		
Introduction to the problems and solutions related to the generation, storage, collection and disposal of solid wastes. Management aspects of planning, organizing, designing and operating refuse collection and disposal systems also included. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.		
 <b>EHT 375 (S, Even)</b>	 2 hrs. cr.	
<b>Vector Control</b>		
Identification and control of organisms which serve as reservoirs and vectors of diseases. One lecture, one 2-hr. lab per week. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.		
 <b>EHT 385 (F, Even)</b>	 4 hrs. cr.	
<b>Food, Milk and Consumer Protection</b>		
Introduction to production, processing, transporting and retailing of food, milk, shellfish and other foods. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 231, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instructor.		
 <b>EHT 483 (S, Odd)</b>	 2 hrs. cr.	
<b>Environmental Assessment</b>		
The essential elements necessary for development of an environmental assessment document as specified by the National Environmental Protection Act. Prerequisite: Bio 290 and EHT 370 (Bio 370) or permission of instructor.		
 <b>EHT 380 (S, Odd)</b>	 2 hrs. cr.	
<b>Epidemiology</b>		
Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisite: Bio 290, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instructor. (Double listed in biology.)		
 <b>EHT 450 (F, S)</b>	 1-8 hrs. cr.	
<b>Internship in Environmental Health</b>		
Experience in actual observation and work at health facilities, health regulation agencies and/or industrial plants where environmental health is a viable concern. Periodic meetings between the Missouri Southern coordinator, the cooperating institution and the student will be required. The student should not be employed in any job that will prevent full-time, maximum concentration on the academic internship. Prerequisite: Senior standing in environmental health or biology curricula.		
 <b>EHT 498</b>	 1-3 hrs. cr.	
<b>Seminar in Environmental Health</b>		
For upper division environmental health and biology majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of environmental health not covered in other courses. Prerequisites: Junior standing, 20 hrs. in environmental health and/or biology and a minimum GPA of 2.5 in environmental health and/or biology or permission of instructor.		
 <b>EHT 499</b>	 1-3 hrs. cr.	
<b>Problems in Environmental Health</b>		
Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of environmental health, with adequate preparation and the consent of the supervising instructor, coordinator, department head and school dean. Prerequisites: Minimum GPA of 3.0 in 20 hrs. of environmental health and/or biology.		

## Law Enforcement

Justice Center 102, 625-9302

**Faculty** Wolf - Head, Owen, Richards, Scott, Spurlin, Terry, Williams

The associate of science degree in law enforcement helps prepare students for entrance into police work, a field which has become highly specialized and complex at the local, state and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

The College also offers the four-year bachelor of science degree in criminal justice administration. See page 158.

### Associate of Science in Law Enforcement

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>26</b>
<b>Law Enforcement Requirements</b>	<b>39</b>
Computer Literacy Requirement	3
LE 100 Introduction to Criminal Justice	3
LE 110 Police Organization and Administration	2
LE 150 Interview and Report Writing	3
LE 200 Criminal Investigation	3
LE 210 Criminal Procedures	3
LE 245 Law Enforcement Photography	3
LE 250 Criminal Law	3
LE 260 Legal and Technical Aspects of Firearms	3
LE 290 Police Supervision and Management	3
HPER 220 First Aid	2
Electives	8
	<b>65</b>

### Suggested Order of Study

#### Associate of Science Degree

Major Code 5505

#### Law Enforcement Major

##### Freshman Year

1st Semester	Hours
CORE [Eng 101 Comp I]	3
CORE 110 Intro to College Math	3
Comp 105 Intro to Micro Comp Use	3
LE 100 Intro to Criminal Justice	3
LE 110 Police Org & Adm	2
CORE [Psy 120 College Orient]	1
CORE [HPER 101 Physical Activity]	1
	16

##### 2nd Semester

Elective	Hours
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Soc 110 Intro to Sociology]	3
LE 150 Interview & Report Writing	3
LE 210 Criminal Procedures	3
	16

##### Sophomore Year

1st Semester	Hours
CORE [Comm 100 Oral Comm]	3
CORE [HPER 103 Lifelm Wellness]	2
CORE [PSc 120 Gov't: U.S./Sta/Loc]	3
LE 200 Criminal Investigation	3
LE 260 Legal & Tech Asp of Fire Arms	3
Elective Fine Arts Elective	3
	17

2nd Semester	Hours
LE 245 Law Enforcement Photo	3
HPER 220 First Aid	2
LE 250 Criminal Law	3
LE 290 Police Supvis & Mgmt	3
Electives Adviser Approved	6
	17

[Department Recommendations]

For additional information contact:

Dr. C. Blake Wolf  
Office: Justice Center 101  
Phone: 625-9302

### Course Descriptions

LE 100 (F, S) 3 hrs. cr.

**Introduction to Criminal Justice Administration**  
Municipal, county, state and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of criminal justice.

LE 110 (F) 2 hrs. cr.

**Police Organization and Administration**  
Management operations, communications, budgeting, recruiting, training and public relations as they pertain to local and state law enforcement agencies.

LE 150 (S)

3 hrs. cr.

#### Interview and Report Writing

Techniques of interviewing and writing the report. Legal considerations for criminal interrogations. Use of basic report forms and records systems.

LE 180 (F, S, Summer)

12 hrs. cr.

#### Basic Law Enforcement Academy

The basic training course for new law enforcement officers in Missouri, approved by P.O.S.T. (Police Officers Standards and Training) Office of the State Department of Public Safety. The broad range of topics includes firearms, reports, defensive tactics, investigation and Missouri traffic and criminal laws. Prerequisites: LE 100, LE 110 and LE 150 or permission. (Additional lab fee for course.)

LE 200 (F)

3 hrs. cr.

#### Criminal Investigation I

Fundamentals of criminal investigation techniques including crime scene procedures, burglary and death investigation. Includes collection, preservation, identification of evidence and overview of crime lab procedures.

LE 210 (F, S)

3 hrs. cr.

#### Criminal Procedures

Criminal law procedures from arrest through trial, search and seizure, review of pertinent supreme court decisions and related topics. The order of criminal trial.

LE 225 (S)

3 hrs. cr.

#### Patrol Procedures

Covers numerous areas confronting today's law enforcement officer during tours of duty and the proper techniques and procedures used in handling each area.

LE 245 (F, S)

3 hrs. cr.

#### Law Enforcement Photography

Designed to instruct the law enforcement student in the fundamentals of photography, as it relates to documentation and investigation of crime scene evidence. No credit if CJAd 210 has been completed.

LE 250 (S)

3 hrs. cr.

#### Criminal Law

Criminal law purposes and functions; rights and duties of officers and citizens in relation to local, state and federal laws. The development, application and enforcement of laws.

LE 260 (F, S)

3 hrs. cr.

#### Legal and Technical Aspects of Firearms

History and development of firearms. The nomenclature of the most commonly used police firearms and the duties and requirements of a rangemaster. The laws concerning firearms acquisitions, ownership and use. Three hrs. lecture per week. Additional lab time arranged.

LE 290 (S)

3 hrs. cr.

#### Police Supervision and Management

Principles of personnel management as applied to law enforcement agencies: evaluation, promotion, discipline, training, employee welfare and problem-solving leadership.

# 166 / Medical Technology

LE 298 (Demand) 1-8 hrs. cr.

## Special Topics in Law Enforcement

Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites stipulated in course syllabus.

## Medical Technology

Reynolds Hall 210, 625-9376

**Faculty** Baiamonte, Mosher

The bachelor of science degree in medical technology is granted to students who complete the required program of study satisfactorily. These requirements include the basic requirements for all bachelor of science degree programs, required science and other supportive courses plus 32 hours of professional course credits. The completion of this degree is required before an individual is eligible to take the certifying examination.

Missouri Southern has affiliation agreements with the Schools of Medical Technology at St. John's Regional Medical Center, Joplin, Mo.; St. John's Regional Health Center, Springfield, Mo.; Lester E. Cox Medical Center, Springfield, Mo. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student. Students should be aware that enrollment in the professional schools is limited. Each of the professional schools has its own admission criteria and selects those students to be admitted to a class from the applicants for that class. In general, this selection is based on the academic record or demonstrated aptitude for the medical field. Students are responsible for filing their own application for admission with the professional schools. Application should be made to the professional school during the early fall of the junior year or approximately 10 months prior to the expected entrance date.

Students who are unsuccessful in gaining admission to a professional school can normally select and complete another science major with the advice of the appropriate department head.

A student may enroll in the professional courses either at the hospital-based school or through Missouri Southern, depending on the policies of the hospital-based school. Students enrolled at the hospital-based school are not considered members of the Missouri Southern student body, since the hospital-based school in such cases is considered as any other accredited institution of higher education. A student enrolling through Missouri Southern is considered a member of the College student body and is, therefore, eligible for benefits offered all students. The weekly time requirements for the professional medical technology courses (400 level) listed are based on the minimum requirements for a course meeting for a normal academic term for a minimum of 16 weeks. Actual scheduling of classes may vary according to custom of the individual professional school to meet these minimum total hour requirements.

## Bachelor of Science With a Major in Medical Technology

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51**</b>
<b>Biology Requirements</b>	<b>26</b>
Bio 100 General Biology	4
Bio 231 General & Medical Microbiology*	5
Bio 305 Genetics*	4
Bio 306 Human Physiology and Anatomy*	5
Bio 456 Immunology*	4
Either	
Bio 361 Parasitology*	4
OR	
Bio 362 Virology*	4
Chemistry Requirement	<b>24-25</b>
Chem 101 General Chemistry I*	5
Chem 102 General Chemistry II*	5
Chem 201 Analytical Chemistry I*	5
Chem 300 Introduction to Modern Organic Chemistry*	5
Chem 351 Biochemistry*** (4)	
OR	
Chem 421 Analytical Chemistry II* (5)	4-5
Other Requirements	<b>17</b>
Phys 151 Elementary College Physics I*	5
Phys 152 Elementary College Physics II*	4
Math 140 Algebra & Trigonometry	5
Comp 110 Programming I (Pascal) (3)	
OR	
Higher level computer course	3
400 Level Medical Technology Courses (at Hospital)	<b>32</b>
	<b>138-139</b>

\*See course descriptions for prerequisites.

\*\*Required biology, physics and mathematics courses simultaneously satisfy Core Curriculum and major requirements.

\*\*\*St. John's, Springfield, Mo., requires either Biochemistry or Quantitative Analysis.

## Suggested Order of Study

### Bachelor of Science Degree

Major Code 1223

#### Medical Technology Major

##### Freshman Year

###### 1st Semester

Course	Hours
Chem 101 Gen Chem I (Algebra & Trig)	5
Math 140 Algebra and Trig	5
CORE [Eng 101 Comp I]	3
Comp 110 Programming I	3
CORE [Psy 120 College Orient]	1
	<b>17</b>

###### 2nd Semester

Chem 102 Gen Chem II (Chem 101)	5
Bio 100 General Biology	4
CORE [History 110 U.S. History]	3
CORE [Eng 102 Comp II]	3
CORE [Econ 180 Amer Econ Sys]	3
	<b>18</b>

##### Sophomore Year

###### 1st Semester

Chem 201 Analy Chem I (Chem 102)	5
Bio 231 Gen & Med Microbiology	5
CORE [Psy 100 or Soc 110]	3
CORE [Humanities & Fine Arts]	3
CORE [HPER 101 Physical Activity]	1
Elective [MT 200 Intro to Med Tech]	1
	<b>18</b>

###### 2nd Semester

Chem 300 Mod Org Chem (Chem 102)	5
Bio 305 Genetics	4
CORE [Comm 100 Oral Comm]	3
CORE [Humanities & Fine Arts]	3
CORE [Hist 120 or 320 U.S. History]	3
	<b>18</b>

##### Junior Year

###### 1st Semester

Phys 151 Elem Col Phys I (Math 140)	5
Bio 361 Hum Phys & Anat (Bio 121)	5
Bio 361 Parasitology (Bio 121)	
OR	
Bio 362 Virology (Bio 231)	4
CORE [HPER 103 Lifetm Wellness]	2
CORE [Humanities & Fine Arts]	3
	<b>19</b>

###### 2nd Semester

Chem 421 Analy Chem II (Chem 201)	
OR	
Chem 351 Biochemistry (Chem 300)	4-5
Phys 152 Elem Col Phys II (Phys 151)	4
Bio 456 Immunology	4
CORE [Psc 120 Gov't: U.S./Sta/Loc]	3
CORE [International Cultural Studies]	3
	<b>18-19</b>

**Senior Year**

1st Semester

(At an approved School of Medical Technology)

MT 401	Clinical Chemistry	10
MT 403	Hematology	6
		<b>16</b>

2nd Semester

(At an approved School of Medical Technology)

MT 402	Clinical Microscopy	1
MT 404	Serology	3
MT 405	Clinical Microbiology	7
MT 406	Immunohematology	3
MT 407	Special Topics in Med Tech	2
		<b>16</b>

(Prerequisites)

[Department Recommendations]

For additional information contact:

Dr. Vernon Baiamonte

Office: Reynolds Hall 213

Phone: 625-9541

OR

Dr. Melvyn Mosher

Office: Reynolds Hall 242 and

Police Academy 105

Phone: 625-9733 or 625-9382

MT 404 (S) 3 hrs. cr.

**Serology-Immunology**

The science of immunity including antibody development, principles of antigen-antibody interactions and techniques of serological testing for various disease states. Three hrs. lecture, 12 hrs. clinic/lab per week.

MT 405 (S) 7 hrs. cr.

**Clinical Microbiology**

Sterile technique, methods of handling and inoculating specimens containing pathogenic micro-organisms, isolation and identification of pathogenic micro-organisms, laboratory tests in chemotherapy, and diagnostic bacteriology, mycology and parasitology. Four hrs. lecture, 12 hrs. clinic/lab per week.

MT 406 (S) 3 hrs. cr.

**Blood Bank-Immunohematology**

A study of the blood group systems and the immune response. Methods of crossmatching, antibody screening and phenotyping. Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hr. lecture, 8 hrs. clinic/lab per week.

MT 407 (S) 2 hrs. cr.

**Special Topics in Medical Technology**

Lecture and/or clinical practice in the areas of in-service education, management and supervision, research and development, and principles and techniques of the instructional process. Lecture and labs to be arranged.

tings conjointly with the client, families or communities and interdependently with the physician.

The nursing program is accredited by the National League for Nursing. The department of nursing was the recipient of the second annual prestigious Freeman Hospital Quality of Medicine Award.

**Program Outcomes**

1. Graduate professional nurses with a Baccalaureate Degree in Nursing.
2. Provide a foundation for graduate education studies in nursing.
3. Prepare nurses to use professional standards of nursing practice in a variety of settings.
4. Increase employment opportunities in professional nursing practice.
5. Enhance critical thinking, communication and therapeutic nursing interventions in the practice of professional nursing.
6. Express satisfaction with the program.

Registered nurses are admitted to the College as transfer or graduates of MSSC's ADN program. In addition to the College's admission and transfer requirements, applicants to the BSN program must show evidence of: graduation from a state-approved and National League for Nursing (NLN) accredited associate degree or diploma nursing program; cumulative GPA of 2.5 or above on a 4.0 scale; current registered nurse licensure or eligibility in the state of Missouri; junior level standing with 60+ credit hours (maximum of 64 credit hours from junior or community colleges may be transferred); three satisfactory professional nurse references; and evidence of current nursing practice.

## Nursing RN to BSN

Kuhn Hall 210, 625-9322

**Faculty** Box-Head, Ayton, Singleton

Southern offers a bachelor of science degree nursing (BSN) program for the registered nurse. Previous nursing education and practice are recognized and valued throughout the curriculum. The BSN curriculum expands nursing knowledge and practice to meet the diverse health care needs of individuals, families and communities in a highly complex health care delivery system.

The BSN program prepares the graduate as a generalist in nursing who has attained curricular expectations in critical thinking, communication and therapeutic interventions. The graduate will have competency to practice in health care settings which provide preventative, maintenance and restorative services. Through the application of the nursing process, the professional nurse practices independently in health care set-

Spring semester graduates may be admitted conditionally as graduate nurses in the Fall Semester. These graduates must meet the same admission requirements as registered nurses. Employment in nursing practice is recommended. Evidence of licensure as a registered nurse following the writing of the NCLEX-RN will remove conditional status.

The National League for Nursing Mobility Profile II examination is a requirement for admission and validates twenty-eight credit hours of nursing courses previously completed at the ADN freshman and sophomore levels. Diploma graduates receive twenty-eight credit hours for nursing courses by examination: Care of the Client during Childbearing/Care of the Child; Care of the Adult Client; and Care of the Client with Mental Disorder. The examination grants credit for junior level nursing courses in a comparable four year generic RN program.

## Course Descriptions

MT 200 (F, S) 1 hr. cr.

**Introduction to Medical Technology**

A practical experience designed to introduce prospective medical technology students to the following areas of a hospital laboratory: hematology, coagulation, urinalysis, blood bank, microbiology, serology, radioimmunoassay and chemistry.

MT 401 (F) 10 hrs. cr.

**Clinical Chemistry**

Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents utilizing both manual and instrumental techniques, including automation and special procedures. Five hrs. lecture, 20 hrs. clinic/lab per week.

MT 402 (S) 1 hr. cr.

**Clinical Microscopy**

Principles and techniques of the physical, chemical and microscopic examination of urine and other excrete as related to disease processes. One hr. lecture, clinic by arrangement.

MT 403 (F) 6 hrs. cr.

**Hematology**

The cellular elements of blood and bone marrow; theory of cell production, release and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation and hemorrhagic disorders. Three hrs. lecture, 12 hrs. clinic/lab per week.

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A decision score of 100 or minus one standard deviation (-20) from the mean on the NLN Mobility Profile II, Books 1, 2 and 3 and 75 percent on the Clinical Validation Examination are criteria for admission, validation/challenge.

Selection is competitive and based on the selection criteria.

Core Curriculum requirements for the bachelor of science degree must be met prior to beginning the nursing course sequence.

## Bachelor of Science Degree in Nursing

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Validation Examinations</b>	<b>28</b>
<b>Nursing Major Requirements</b>	<b>40</b>
Nurs 300 Concepts of Professional Nursing (WI)	3
Nurs 315 Gerontic Nursing	3
Nurs 320 Nursing Ethics	3
Nurs 330 Advanced Health Assessment	5
Nurs 400 Community Health Nursing	5
Nurs 415 Nursing Research (WI)	3
Nurs 430 Nursing Management and Leadership	5
Nurs 498 Nursing Elective	3
Bio 308 Human Pathophysiology	4
Psy 320 Statistics	3
Nurs 405 Nursing and Health Care	3
<b>Additional Electives (Includes Comp 105)</b>	<b>9</b>

## Suggested Order of Study

### Bachelor of Science Degree Major Code 3200 Nursing Major

#### TWO YEAR OPTION

	Semester Hours
<b>Core Curriculum</b>	<b>51</b>
<b>NLN Mobility Examination</b>	<b>28</b>
<b>Additional Electives*</b>	<b>9</b>

Nursing Prerequisites: BIO 308 Human Pathophysiology\*\* 4

<b>Junior Year</b>	
First Semester	
Nurs 300 Concepts of Professional Nursing (WI)	3
Nurs 315 Gerontic Nursing	3
Nurs 330 Advanced Health Assessment	5

Second Semester		
Nurs 400 Community Health Nursing	5	
Nurs 405 Nursing and Health Care	3	

8

#### Senior Year

First Semester		
Nurs 320 Nursing Ethics	3	
Nurs 498 Nursing Elective	3	

9

#### Second Semester

Nurs 415 Research in Nursing (WI)		
Nurs 430 Nursing Management and Leadership	5	

8

\*Includes microcomputer course/validation

\*\*See course descriptions for prerequisites

\*\*\*Prerequisite: Math 110 or 130 must be completed prior to PSY 320.

#### ONE YEAR OPTION

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>NLN Mobility Examination</b>	<b>28</b>
<b>Additional Electives*</b>	<b>9</b>
Nursing Prerequisites: BIO 308 Human Pathophysiology**	4
PSY 320 Applied Statistics**	3

#### Senior Year

First Semester		
Nurs 300 Concepts of Professional Nursing (WI)	3	
Nurs 315 Gerontic Nursing	3	
Nurs 320 Nursing Ethics	3	
Nurs 330 Advanced Health Assessment	5	
Nurs 498 Nursing Elective	3	

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#### Second Semester

Nurs 400 Community Health Nursing		
Nurs 405 Nursing and Health Care	3	
Nurs 415 Research in Nursing (WI)	3	
Nurs 430 Nursing Management and Leadership	5	

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\*Includes micro computer course/ validation

\*\*See course descriptions for prerequisites

For additional information contact:

Department of Nursing

Office: Kuhn Hall Room 210

Phone: 625-9322

## Course Descriptions

### Baccalaureate Degree

Nurs 300 (F) 3 hrs. cr.

#### Concepts of Professional Nursing

(Writing Intensive)

Provides opportunities for socialization of the learner in transition from a technical level to the professional level of nursing practice. Core content includes theories of nursing, the nursing process, change theory, communications, teaching/learning process and professional accountability. Professional roles of the nurse presented are teacher, planner of care, communicator and contributor to the discipline of nursing. Three hrs. lecture. Prerequisite: Admission to BSN program.

3 hrs. cr.

#### Gerontic Nursing

Provides comprehensive knowledge of the processes and problems of aging. Needs and functional capacities of the aged are addressed. Emphasis is placed on the formulation of interventions appropriate to the individual needs of the aged client and family. Issues relevant to the field of gerontic nursing are presented. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

3 hrs. cr.

#### Nursing Ethics

Investigates ethical issues which confront the professional throughout the client's life span. Ethics as a concept, traditional ethical approaches, constraints in nursing practice and selected ethical issues are presented. The role of the nurse will be emphasized using the case study approach. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

5 hrs. cr.

#### Advanced Health Assessment

Physical assessment is utilized as a tool in the data collection phase of the nursing process. Clinical experience is designed to refine the assessment skills with the assistance of an instructor. Nursing process is applied to the care of patients with a complexity of health problems in a variety of settings. Three hrs. lecture, 2 hrs. campus lab and 4 hrs. clinical lab. Prerequisites: Bio 308, Nurse 300 (or concurrent).

Nurs 400 (S) 5 hrs. cr.

### **Community Health Nursing**

Concepts and methods for assessment of community strengths and health needs will be analyzed. Recommendation for the prevention, promotion and restoration of the health of individuals within the community, state and nation are presented. Interactive process is accentuated between health care providers and community residents to improve the overall health status of the person and aggregates. Three hrs. lecture, 6 hrs. clinical lab including conferences. Prerequisites: Nurs 300, Nurs 330.

Nurs 405 (S) 3 hrs cr.

### **Nursing and Health Care**

Examines various facets of health care delivery in the United States beginning with general systems theory. Historical threads that formed the fabric of today's health care delivery systems are woven throughout the course. Public and private providers who are responsible for health care and the influence of power groups on health care delivery are discussed. The effects of legislation on health care provision and on nursing practice are emphasized. Health related industries, the cost of health care and who pays, the role of consumers, and the barriers to care experienced by certain groups are also explored. An investigation of selected systems in other countries, projections for the future, and current trends in health care are included. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

Nurs 415 (S) 3 hrs. cr.

### **Nursing Research (Writing Intensive)**

Provides guided investigation of research design, methodology, sampling, conclusions and clinical application of findings. Critical evaluation of research studies is emphasized. Legal and ethical issues relative to the research process are studied. Nursing research builds upon knowledge and skills acquired in the statistics course. Three hrs. lecture. Prerequisites: Psy 320, Nurs 300, Nurs 330, Nurs 400 (or concurrent).

Nurs 430 (S) 5 hrs. cr.

### **Nursing Management and Leadership**

Investigates the role of the nurse manager responsible for clinical practitioners in a bureaucratic environment. Concepts of competitive health care environment, value of services, access to care, quality and costs of services and professional level of nursing practice are incorporated. Application of concepts through clinical lab experiences promotes the knowledge and skills in understanding and manipulating the environments in which nurses practice. Three hrs. lecture, 6 hrs clinical lab. Prerequisites: Nurs 300, Nurs 330, Nurs 400 (or concurrent.)

Nurs 498 (Demand) 1-3 hrs. cr.

### **Seminar in Nursing**

Special topic or topics not normally included in another course. Prerequisites: Upper division standing, additional requirements will be stipulated in the syllabus of the course.

Nurs 499 (Demand) 1-3 hrs. cr.

### **Independent Study**

Independent study course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration in the course must be approved by adviser, department head and school dean. Minimum of 3.0 GPA required.

## **Graduate Outcomes**

Graduates of the program will:

- Apply the Neuman systems model in the promotion of the person's optimal systems stability.
- Promote health by empowering the person through health education.
- Provide self-directed contemporary health care through application of the nursing process.
- Practice within the professional standards of care.
- Use current technologies in providing culturally sensitive care through primary, secondary, and tertiary prevention.
- Manage health care delivery through coordination, collaboration and delegation.
- Integrate communication strategies in interacting with the person and information systems.
- Apply nursing and health related research to nursing practice.

## **Nursing BSN**

**Faculty** Box - Head, Ayton, Eller, Jacobs, Ketchum, Ross, Shippee, Singleton

The bachelor of science degree nursing program provides intensive preparation for the first-time entering student and licensed practical nurse seeking licensure as a registered nurse and the registered nurse pursuing baccalaureate education in the nursing discipline.

The program is based on systems emphasizing person, nursing, health and environment. Core Curriculum and required support courses augment the nursing courses in preparing a professional nurse for the twenty-first century who is able to function at the client's side in a diverse health care delivery system.

Upon successful completion of the program, the graduate is eligible to apply to write the examination for licensure as a Registered Nurse (RN) barring restrictions stated in the Nursing Practice Act 335.066,1,2 (1)-(14) of the state of Missouri. "The applicant shall be at least nineteen years of age . . ." according to the Nursing Practice Act 335.046 of the Missouri Statutes. Contact nursing department or State Board of Nursing for further information. The program is accredited by the National League for Nursing and has initial accreditation from the Missouri State Board of Nursing.

## **Program Outcomes**

The faculty of the department of nursing support the following outcome criteria as a measure of quality:

### **1. Critical thinking**

Eighty-five percent of graduating students will score above the 65th percentile on the NLN-BSN Comprehensive. Class mean for problem solving (critical thinking) will be above the 60th percentile on the College Outcome Measures Program from ACT.

### **2. Communication**

Eighty-five percent of graduating students will score above the 65th percentile on the NLN-BSN Comprehensive. Class mean for communication will be above the 60th percentile on the College Outcome Measures Program from ACT.

### **3. Therapeutic nursing interventions**

Eighty-five percent of graduating students will score above the 65th percentile on the NLN-BSN Comprehensive.

### **4. Graduation rates**

Eighty-five percent of students entering the program will graduate.

### **5. Employment rates**

Ninety percent of the graduates seeking employment will obtain it within 6 months.

### **6. Attainment of credentials**

Ninety-five percent of those graduating in a given year will be successful in passing the NCLEX-RN examination on the first attempt.

## 7. Professional development

Fifty percent of registered nurses graduating from the program will experience career enhancement as evidenced by continuing education, formal education, professional organization activity or committee involvement.

## 8. Program satisfaction

Eighty-five percent of the graduates will be satisfied with the educational experience. Responding employers will rate the nursing practice as satisfactory for 80 percent of the graduates.

## Admission Criteria

- Continuous enrollment, readmission or admission to College as a transfer student.
- Cumulative grade point average 2.5 minimum based upon completion of 54 credit hours of the suggested order of study.
- Completion of the following four natural and physical science courses with a grade of "C" or higher:
  - BIO 121 General Zoology
  - BIO 306 Human Physiology and Anatomy
  - BIO 231 General and Medical Microbiology
  - Chem 100 Introductory Chemistry
- Percentile score on the Nelson Denny Reading Examination.

Admission to the program is competitive.

Applications, readmission and transfer criteria are available in the Department of Nursing in Kuhn Hall.

## Admission of Registered Nurses (RN)

Registered nurses are admitted to the College as graduates of Southern's ADN Program or as transfer students. In addition to the Program admission requirements, registered nurses must also meet the following requirements:

- Graduation from a state-approved and National League for Nursing (NLN) accredited Associate Degree or Diploma nursing program.
- Current registered nurse licensure or eligibility in the state of Missouri.

- The registered nurse has the option to challenge 25 credit hours of junior level nursing major requirements by successfully passing the NLN Mobility Profile II examination and Clinical Validation Examination. A minimum decision score of 80 on the NLN Mobility Profile II Examination Books 1, 2, and 3 and 75 percent on the Clinical Validation Examination is required.

## Admission of Licensed Practical Nurses (LPN)

Licensed Practical Nurses (LPN) are admitted to the College as first-time (generic) or transfer students. LPN applicants must meet all college and program requirements for admission. The LPN has the option to challenge 5 credit hours for NURS 310 Nursing Assessment and Technologies through departmental examination.

## Special Fees

In addition to all established fees for college students, a special laboratory fee of \$100.00 is assessed for each of the following courses:

Nurs 310 Health Assessment and Technologies

Nurs 430 Advanced Health Assessment

Other costs incurred during the program include, but are not limited to a required equipped nurse bag (\$225), uniforms, pins, standardized examination fees, graduation fees, licensing examination fees, hepatitis series, etc. A detailed list of items and costs is available in the Nursing Department.

BIO 121	General Zoology	4
BIO 306	Human Physiology and Anatomy*	5
BIO 231	General and Medical Microbiology	5
BIO 308	Pathophysiology	4
CHEM 100	Introduction to Chemistry*	5
COMP 105	Introduction to Microcomputers	3
HPER 385	Nutrition for Human Development	3
PSY 320	Statistics	3

\* Satisfies the Core requirement for Area 3 Natural Science and Behavioral Science

## Suggested Order of Study

### Freshman Year

Fall Semester	Hours
Course	
Bio 121	General Zoology
Eng 101	English Comp I (WI)
Math 130	College Algebra
Comm 100	Oral Communication
HPER 103	Lifetime Wellness
Comp 105	Intro to Microcomputers
	18

### Freshman Year

Spring Semester	Hours
Bio 306	Human Physiology and Anatomy*
Eng 102	English Comp II (WI)
Chem 100	Intro to Chemistry*
Econ 180	Amer Econ System
Psy 100	General Psychology
	19

### Sophomore Year

Fall Semester	Hours
Course	
Bio 231	General and Medical Microbiology*
CORE	Area 2.a (Fine Art)
CORE	Area 2.b (Literature)
HPER 385	Nutrition for Human Development
Hist 110	U.S. History 1492-1877
	17

### Sophomore Year

Spring Semester	Hours
Bio 308	Pathophysiology*
CORE	Area 2.c (Fine Art or Literature)
CORE	Area 5 (International Culture Studies)
PSC 120	Gov't: U.S., St, Local
HPER 101	Physical Activity
Hist 120	U.S. Hist 1877 - Pres
	17

## Bachelor of Science Degree in Nursing

	Semester Hours
<b>Core Requirements (p. 41)</b>	<b>51</b>
<b>Nursing Major Requirements</b>	<b>83</b>
(See course descriptions for prerequisites)	
NURS 300 Concepts of Professional Nursing (WI)	3
NURS 310 Health Assessment and Technologies	5
NURS 320 Adult Nursing	7
NURS 350 Family Nursing	9
NURS 360 Mental Health Nursing	4
NURS 370 Gerontic Nursing	3
NURS 400 Complex Nursing	6
NURS 420 Nursing Ethics	3
NURS 430 Advanced Health Assessment	3
NURS 450 Community Health Nursing	5
NURS 460 Research in Nursing (WI)	3
NURS 470 Nursing Management and Leadership	5
NURS 480 Issues in Nursing	2

<b>Junior Year</b>		
Fall Semester		
Nurs 300	Concepts of Professional Nursing (WI)	3
Nurs 310	Health Assessment and Technologies+^	5
Nurs 320	Adult Nursing+	7
		15

<b>Junior Year</b>		
Spring Semester		
Nurs 350	Family Nursing+	9
Nurs 360	Mental Health Nursing+	4
Nurs 370	Gerontic Nursing	3
		16

<b>Senior Year</b>		
Fall Semester		
Nurs 400	Complex Nursing*#	6
Nurs 420	Nursing Ethics	3
Nurs 430	Adv Health Assessment	3
Psy 320	Statistics*	3
		15

<b>Senior Year</b>		
Spring Semester		
Nurs 450	Community Health Nursing	5
Nurs 460	Research in Nursing (WI)	3
Nurs 470	Nursing Mgmt & Leadership	5
Nurs 480	Issues in Nursing	2
		15

\*See course descriptions for prerequisites. +Credits by examination, NLN Mobility Profile II for Registered Nurses.

^Credit by departmental examination for Licensed Practical Nurses.

#Credit by departmental examination for Registered Nurses.

A GPA of 2.5 in nursing is required for progression.

## Minors

Minors in supportive disciplines are available to nursing students. See requirements for the following suggested (but not exclusive) minors.

Informatics - pg. 153

Business - pg. 109

## Americans with Disabilities Act implications

Students will be required to have completed a physical examination/health verification after admission to the nursing program. Students will be required, during the course of the program, to demonstrate their physical and/or emotional fitness to meet the essential requirements of the program. Such essential requirements include freedom from communicable diseases, the ability to perform certain physical tasks and suitable emotional fitness. Any appraisal measures used to determine such physical and/or emotional fitness will be in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Core performance standards

for admission and progression which comply with the Americans with Disabilities Act of 1990 are available in the office of the Department of Nursing.

Nurs 400 (F) 6 hrs cr.

### Complex Nursing

Focuses on the nursing care of persons with complex variances in health in acute care and rehabilitation settings. Two hrs. lecture and 12 hrs of clinical per week. Prerequisites: Nurs 350 and Nurs 360 with a minimum grade of "C".

Nurs 420 (F) 3 hrs cr.

### Nursing Ethics

Focuses on the process of ethical decision making. Ethical issues confronting the professional nurse are explored. Three hrs. lecture per week. Prerequisites: Nurs 350, Nurs 360 and Nurs 370 with a minimum grade of "C".

Nurs 430 (F) 3 hrs cr.

### Advanced Health Assessment

Intricate technologies are used to assess, identify and describe deviations from normal in patients with a complexity of health problems. Two hrs. lecture and 3 hrs. of lab per week. Prerequisites: Nurs 350, Nurs 360 and Nurs 370 with a minimum grade of "C".

Nurs 450 (S) 5 hrs cr.

### Community Health Nursing

Concepts and methods for assessment of community strengths and health needs will be analyzed to improve the overall health status of the person and aggregates. Three hrs. of lecture and 6 hrs. of clinical. Prerequisites: Nurs 400, Nurs 410, Nurs 420 and Nurs 430 with a minimum grade of "C".

Nurs 460 (S) 3 hrs cr.

### Research in Nursing (WI)

Emphasizes evaluation of nursing research, utilization of research findings in the clinical setting and assisting in the conduct of research. Three hrs. of lecture per week. Prerequisites: Psy 320, Nurs 400, Nurs 420 and Nurs 430 with a minimum grade of "C".

Nurs 470 (S) 5 hrs cr.

### Nursing Management and Leadership

Emphasis is on nursing management and organization, nursing leadership skills and resource allocation. Three hrs. lecture and 6 hrs. clinical per week. Prerequisites: Nurs 400, Nurs 420 and Nurs 430 with a minimum grade of "C".

Nurs 480 (S) 2 hrs cr.

### Issues in Nursing

Investigates current trends and issues in nursing on the local, national and international scene. Two hrs. lecture per week. Prerequisites: Nurs 400, Nurs 420, and Nurs 430 with a minimum grade of "C".

Nurs 498 (Demand) 1-3 hrs cr.

### Seminar in Nursing

Special topic or topics not normally included in another course. Prerequisites: Upper division standing, additional requirements will be stipulated in the syllabus of the course.

Nurs 499 (Demand) 1-3 hrs cr.

### Independent Study

Independent study course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration in the course must be approved by adviser, department head and school dean. Minimum of 3.0 GPA required.

## Course Descriptions

Nurs 300 (F) 3 hrs cr.

### Concepts of Professional Nursing (WI)

Study will focus on the knowledge and technologies needed to assume the roles of the professional nurse as provider of care, teacher, communicator and contributor to the discipline of nursing. The course is structured to provide an opportunity for the socialization of the learner to professional nursing practice. Three hrs. lecture per week. Prerequisite: Admission to the nursing program.

Nurs 310 (F) 5 hrs cr.

### Health Assessment and Technologies

Incorporates a systematic approach to basic health assessment and application of basic nursing interventions for the person with limited variances in health. Three hrs. lecture and 6 hrs. lab per week. Prerequisite: Admission to the nursing program.

Nurs 320 (F) 7 hrs cr.

### Adult Nursing

Focuses on variances in health of adults with common health problems. Emphasis is on application of the nursing process in secondary prevention. Four hrs. lecture and 9 hrs. clinical per week. Prerequisite: Admission to the nursing program.

Nurs 350 (S) 9 hrs cr.

### Family Nursing

Focuses on health promotion and nursing care of the maternity and pediatric client with variances of health. Five hrs. lecture and 12 hrs. clinical per week. Prerequisites: Nurs 300, Nurs 310, and Nurs 320 with a minimum grade of "C".

Nurs 360 (S) 4 hrs cr.

### Mental Health Nursing

Assessment, promotion of mental health and care of the person with variances in mental health. Use of therapeutic communication and the nurse-client relationship are emphasized. Two hrs. lecture and 6 hrs. of clinical per week. Prerequisites: Nurs 300, Nurs 310, and Nurs 320 with a minimum grade of "C".

Nurs 370 (S) 3 hrs cr.

### Gerontic Nursing

Focuses on the normal aging process as it relates to the health variances of the older person. Three hrs. lecture per week. Prerequisites: Nurs 300, Nurs 310, and Nurs 320 with a minimum grade of "C".

## Paramedic

EMS-Annex, 625-9328

Major Code 7008

In cooperation with the College's Division of Continuing Education, the School of Technology offers certificate programs preparing students to take state certifying examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area Emergency Medical Services and hospitals. Students seeking information about these programs should check with the Dean of Technology for details about scheduling of the courses. The curriculum and its length varies with current Missouri state requirements.

### Associate of Arts

Core Requirements		42
Bio 306	Human Physiology and Anatomy*	5
EMT Course		6
EMT-P Course		18

\*Satisfies Core requirements

## Course Descriptions

EMT-P 295 (Demand) 18 hrs. cr.

### EMT-P (Paramedic)

Classroom instruction supplemented by clinical observation and experience. The program meets over a two semester period. The classroom phase consists of three 3-hr. sessions per week. The clinical training is arranged through area hospitals and ALS ambulance services. Applicants must be at least 18 years of age, hold a high school diploma or equivalent and possess a current state ambulance license. A minimum of one year experience in the emergency medical field is preferred. Requirements for admission and for curriculum may change as the State Bureau of Emergency Medical Services may modify these for licensing. Special book and equipment fees are assessed for this course. (For additional information, contact the Dean of Technology.)

## Pre-Engineering

Reynolds Hall 208/212  
625-9719/625-9540

Faculty Knapp, Phillips, Sloan

The physical science department at Missouri Southern, in cooperation with the engineering staff at the University of Missouri-Rolla and the University of Missouri-Columbia have prepared booklets describing the Cooperative Engineering Program between these schools and MSSC. These booklets list the course sequence for a student taking the first two or two and one-half years of an engineering science curriculum at Southern and planning to transfer to UMR or UMC. The plan also includes the courses the student will take at UMR or UMC to complete a B.S. degree in various engineering disciplines.

Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering adviser during the first semester. If a student wishes to transfer to a school other than UMR or UMC, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR or UMC outline. College catalogs are available in the Reserve area of Spiva Library. Any adviser who desires a copy of the booklet should contact the physical science department.

		Semester Hours
<b>Core Requirements** (p. 41)</b>	<b>25</b>	
<b>Pre-engineering Requirements</b>	<b>45</b>	
Phys 250 General Physics I*	5	
Phys 260 General Physics II*	5	
Phys 312 Statics*	3	
Chem 101 General Chemistry I*	5	
Math 150 Calculus with Analytical Geometry I*	5	
Math 250 Calculus with Analytical Geometry II*	5	
Math 260 Calculus with Analytical Geometry III*	5	
Comp 120 Fortran****	3	
Econ 201 Principles of Economics (Macro)	3	
Elective (Math or Physics)***	3	
Elective (Humanities/Social Science/Drafting/Chemistry)****	3	

70

\*See course descriptions for prerequisites.

\*\*Required math and physics courses simultaneously satisfy Core Curriculum and major requirements.

\*\*\*The student should meet with a pre-engineering adviser for the proper selection depending on the field of engineering.

\*\*\*\*UMC prefers Comp 110 and requires this for electrical and computer engineering students.

## Suggested Order of Study

### Associate of Science Degree

Major Code 5499

### Pre-engineering Major

#### Freshman Year

Course	Hours
CORE [Eng 101 Comp I]	3
Math 150 Calculus I	5
CORE [Hist 110/120 U.S. Hist]	3
Chem 101 General Chemistry I	5
CORE [Psy 120 College Orient]	1
CORE [HPER 101 Physical Activity]	1

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#### 2nd Semester

Math 250 Calculus II	5
Phys 250 General Physics I	5
Econ 201 Prin of Economics	3
CORE [Fine Arts/Draft/Chem II]*	3-5

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#### Sophomore Year

1st Semester	
Math 260 Calculus III	5
Phys 260 General Physics II	5
Comp 120 Fortran**	3
CORE [Sociology or Psychology]*	3
CORE [HPER 103 Lifetm Wellness]	2

18

#### 2nd Semester

Math 322 Differential Eq.	3
Phys 372 Electronic Circuits	4
Phys 341 Thermal Physics (4)	
OR	
Phys 322 Classical Mechanic (3)	3-4
CORE [Comm 100 Oral Comm]*	
AND/OR	
CORE [Humanities/Fine Arts]	3-6

16-17

#### Summer Session

Phys 312 Statics	3
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\*Suggested elective (not strict requirements)  
\*\*UMC prefers Comp 110 and requires this for electrical and computer engineering students.

For additional information contact:

Dr. Russell Phillips  
Office: Reynolds Hall 208  
Phone: 625-9719

## Preprofessional

EMS-Annex, 625-9328

### **Associate of Arts Degree**

This curriculum is designed for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours.

Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

## Prepharmacy

Reynolds Hall 210, 625-9376

**Faculty** Messick - Head

Major Code 7007

<b>Core Requirements* (p. 41)</b>		<b>14</b>
Eng 101 and 102 English Comp**	6	
Chem 101 and 102 General Chemistry**	10	
Math 150 Calculus**	5	
Social Sciences/Humanities**	14	
Bio 306 Human Physiology and Anatomy	5	
Electives	10	
	<b>64</b>	

\*28 hours of Core requirements are met by UMKC School of Pharmacy minimum requirements.

\*\*UMKC School of Pharmacy minimum requirements.

## Radiologic Technology

Kuhn Hall 304, 625-3118

**Faculty** Beals

The associate of science degree in radiologic technology combines Core Curriculum courses, supportive courses in the behavioral sciences and natural sciences and special courses in the field of radiology including extensive clinical laboratory experiences. The clinical laboratory experiences are provided through agreements between Missouri Southern and St. John's Regional Medical Center or other accredited facilities. The student successfully completing the curriculum is eligible to write the National Registry Examinations to become a Registered Technologist.

Completion of the degree requires the completion of Core Curriculum requirements for the associate of science degree, all radiologic technology courses, Bio 306, Bio 240, Chem 100 or Phys 100 and Psy 221. Applicants whose backgrounds have not prepared them for Bio 306 must meet these prerequisites before being admitted to the program.

Special admissions procedures are required for admittance into this program in addition to admission to Missouri Southern State College. A special Radiologic Technology application must be turned in to the Director of the Radiology Program before March 1st of the year the student would enter the program. Students may begin the program only at the beginning of the fall semester.

In addition to established fees for all college students, special fees of \$100 for the first semester and \$40 for each succeeding term, including summers, are required for enrollment in radiology courses.

Students who are already Registered Radiologic Technologists may also enter this program.

Radiological course credit will be granted to the Registered Radiologic Technologist, equal to that granted to the graduating associate of science student, at the time the Registered Radiologic Technologist starts the program. A minimum of 30 additional academic semester hours is required. This credit must include the general education requirements for the associate of science degree plus a concentration of courses in

one of the subject matter areas of business (accounting and secretarial procedures or business management), behavioral sciences or natural science (concentration in either biology, chemistry or physics).

### **Associate of Science in Radiologic Technology**

	Semester Hours
<b>Core Requirements</b>	<b>25</b>
<b>Radiology Requirements</b>	<b>55</b>
Rad 101 Introduction to Radiology*3	3
Rad 111 Medical Terminology	3
Rad 121 Patient Care and Special Procedures in Radiology	3
Rad 132 Prin of Radiographic Exposure	3
Rad 142 Radiographic Pos I	3
Rad 160 Film Critique	2
Rad 170 Radiologic Physics	3
Rad 180 Practicum in Radiology	4
Rad 241 Radiographic Pos II	3
Rad 252 Radiographic Pos III	3
Rad 282 Practicum in Radiology II	2
Rad 290 Practicum in Radiology III	4
Rad 299 Advanced Radiology	3
Bio 306 Human Physiology and Anatomy*	5
Chem 100 Elementary Chemistry**	
OR	
Phys 100 Fundamentals of Physical Science	5
Psy 221 Psychology of Personal Adjustment	3
Bio 240 Radiation Biology*	3

\*See course descriptions for prerequisites.

\*\*Satisfies Core Curriculum Requirement.

### **Suggested Order of Study**

#### **Associate of Science Degree**

Major Code 5207

#### **Radiologic Technology Major**

##### **Freshman Year**

Fall Semester

Course	Hours
Bio 306 Human Physi & Anatomy**	5
Rad 101 Intro to Radiology	3
Rad 170 Radiologic Physics	3
Rad 142 Radiographic Pos I	3
CORE [Psy 120 College Orient]	1
CORE [HPER 101 Physical Activity]	1
	<b>16</b>

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Spring Semester		
Math 130	College Algebra	
OR		
Math 30	Intermediate Algebra	3
Psy 100	General Psychology	3
Bio 240	Radiation Biology	3
Rad 132	Prin of Radiographic Exp	3
Rad 241	Radiographic Posi II	3
CORE	[HPER 103 Lifetm Wellness]	2
		17

Summer Semester\*

Rad 160	Film Critique	2
Rad 180	Practicum in Radiology I	4
		<b>6</b>

Sophomore Year

Fall Semester		
Chem 100	Intro Chemistry	
OR		
Phys 100	Fund of Phys Sci	5
CORE	[Eng 101 Comp I]	3
Psy 221	Psy of Personal Adjustment	3
Rad 111	Medical Terminology	3
Rad 252	Radiographic Pos III	3
		17

Spring Semester

CORE	[Hist 110 or PSc 120]	3
CORE	[Comm 100 Oral Comm]	3
Rad 121	Pat Care & Spec Pro	3
Rad 282	Practicum in Radiology II	2
CORE	[Literature or Fine Arts]	3

#### [Department Recommendations]

\*Summer classes meet a minimum of 12 weeks.

\*\*Placement in Bio 306 will depend on pre-entrance zoology test scores or completion of Bio 121.

For additional information contact:

Mr. Wiley Beals

Office: Kuhn Hall 304

Phone: 625-3118 or 625-9328

OR

Dr. Jack G. Spurlin

Office: EMS-Annex

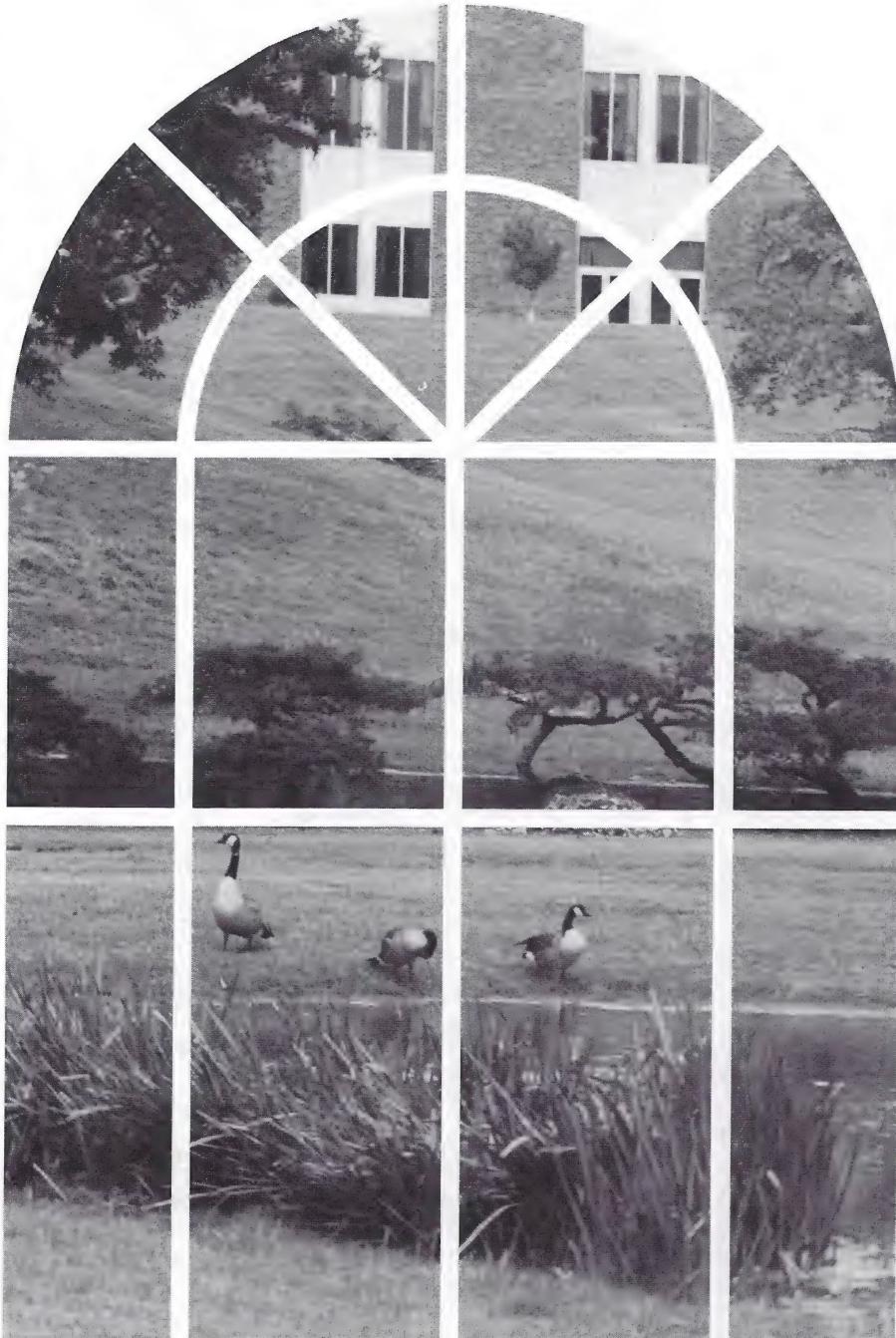
Phone: 625-9328

## *Course Descriptions*

<b>Course Descriptions</b>		
Rad 101	3 hrs. cr.	
<b>Introduction to Radiology</b>		
Basic procedures and equipment in the radiology department. Includes organization, function and supervision of a radiology department with a history of X-ray, ethical principles and legal aspect of technology and elementary radiation protection. Two hrs. lecture, 2 hrs. lab per week. Prerequisite or corequisite Bio 306.		
Rad 111	3 hrs. cr.	
<b>Medical Terminology</b>		
The language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes and suffixes. Relates medical roots to everyday English words. A survey of medical and surgical diseases is included. Three hrs. lecture per week.		
Rad 121	3 hrs. cr.	
<b>Patient Care and Special Procedures in Radiology</b>		
Routine and special care of the patient. Includes sterile techniques, preparation of contrast media. Special attention to visualization of digestive, urinary and reproductive organs. Three hrs. lecture per week.		
Rad 132	3 hrs. cr.	
<b>Principles of Radiographic Exposure</b>		
Fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on radiation protection and darkroom chemistry and techniques. Three hrs. lecture per week.		
Rad 142	3 hrs. cr.	
<b>Radiographic Positioning I</b>		
Basic radiographic positioning including both standard and specialized position of the extremities and spine. Film critique and radiation protection are included. Two hrs. lecture, 3 hrs. lab and 12 hrs. clinic per week.		
Rad 160	2 hrs. cr.	
<b>Film Critique</b>		
Develops student's ability to evaluate X-ray films as to technical quality and diagnostic interpretation. Includes an introduction to quality assurance. One hr. lecture, 2 hrs. lab per week.		
Rad 170		3 hrs. cr.
<b>Radiologic Physics</b>		
The physics of radiology. The physical principles of X-ray production. Including theory in electricity, rectification, circuitry and basic equipment maintenance. Three hrs. lecture per week.		
Rad 180		4 hrs. cr.
<b>Practicum in Radiology I</b>		
Intensified clinical training in the areas of urology, surgery, special procedure, fluoroscopy and general radiography. Course meets for 12 weeks summer session. Thirty-five hrs. clinic per week.		
Rad 241		3 hrs. cr.
<b>Radiographic Positioning II</b>		
In-depth study of routine and special views of the skull and facial bones. Film critique, radiation protection and skull anatomy review included. Two hrs. lecture, 3 hrs. lab, 20 hrs. clinic per week.		
Rad 252		3 hrs. cr.
<b>Radiographic Positioning III</b>		
Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Course includes film critique, radiation protection and review of vascular anatomy. Three hrs. lecture, 20 hrs. clinic per week.		
Rad 282		2 hrs. cr.
<b>Practicum in Radiology II</b>		
Advanced clinical training. Includes an introduction to the responsibility of patient flow control. Twenty hrs. clinic per week.		
Rad 290		4 hrs. cr.
<b>Practicum in Radiology III</b>		
Professional clinical training in which the student controls patient flow. Special attention is given to final training in special procedures and surgery. Includes radiation therapy. Course meets 12 weeks during the summer session. Thirty-five hrs. clinic per week.		
Rad 299		3 hrs. cr.
<b>Advanced Radiology</b>		
Comprehensive review of the field of radiology including innovations, trends and anticipated advancements in the field. Three hrs. lecture per week.		

# *College Organization*

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**College History**  
**Regents/Trustees**  
**Memberships**  
**Accreditations**  
**Administration**  
**Faculty**  
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**Applications**

# College History

The citizens of Joplin, who in the late 1930s asked the public school district to offer college classes, could not have envisioned the sprawling campus and multidiscipline curriculum that today is Missouri Southern State College. From that initial request came Joplin Junior College, founded in 1937 as part of the Joplin school system. Nine faculty members and 114 students began classes under the auspices of the Extension Division of the University of Missouri in the new high school building.

In the spring of 1938, voters approved almost five-to-one a bond proposal that would assure the continuation of the junior college. During the next 25 years Joplin Junior College established a national reputation for outstanding academic strength, a strong foundation for what was to come. By the mid-1960s, area citizens again recognized the need for expanded educational opportunities.

In 1964, the citizens voted eight to one to create the Junior College District of Jasper County with a Board of Trustees to govern the newly named Jasper County Junior College. The following year, the Missouri General Assembly established a two-year senior college to be funded by the state when facilities of the junior college became available. The district would continue to fund the freshman and sophomore years.



The area again responded with enthusiastic and generous support to fund the building of a new campus on the site of the Mission Hills Farm to house the growing college. Administration and faculty, working with other college educators around the state, began developing the new curriculum. In August 1967, students gathered for the first time on the new campus of Missouri Southern State College.

The dual funding arrangement with the state continued until 1977 when on July 1 the State of Missouri officially took on the responsibility of funding the entire college. Today Missouri Southern State College remains a proud member of the state's higher education family while continuing to serve the region that is an integral part of its past.

## Board of Regents

Cynthia Schwab 1995  
Keith Adams 1996  
Glenn D. Wilson 1997  
Robert Lamb 1998  
Stephen P. Carlton 1999  
Carolyn B. Phelps 2000

## Board of Trustees

Fred G. Hughes  
Donald R. Patterson  
Jerry E. Wells

## Memberships

American Association of State Colleges and Universities  
American Association of Colleges for Teacher Education  
North Central Association  
Sub-Committee on Institutions for Teacher Education  
Council for the Advancement and Support of Education  
American Assembly of Collegiate Schools of Business  
Association of Collegiate Schools and Business Programs  
National League for Nursing Council of Baccalaureate and Higher Degree Programs  
National League for Nursing Council of Associate Degree Programs

## Accreditation

North Central Association of Colleges and Secondary Schools  
National Council for the Accreditation of Teacher Education  
Missouri State Board of Nursing  
Missouri State Department of Education  
American Dental Association  
American Medical Association  
National League for Nursing Committee on Allied Health Education and Accreditation  
National Association for Accreditation of Clinical Laboratory Sciences

*Information concerning accreditation, including copies of pertinent documents, may be obtained from the Office of the Vice President for Academic Affairs.*

## Administrative Staff

President .....	Julio S. Leon
Senior Vice President.....	John W. Tiede
Vice President for Academic Affairs.....	Erik J. Bitterbaum
Vice President for Student Services .....	Glenn D. Dolence
Controller & Asst. Vice President for Business Affairs .....	Sidney Shouse
Assistant Vice President for Information Services .....	J. Steve Earney
Assistant to the Vice President for Academic Affairs .....	(To be Appointed)
Dean of Students and Director of Student Life .....	Douglas M. Carnahan
Head Librarian.....	Charles H. Kemp
Registrar.....	Eugene C. Mouser
Dean, School of Arts and Sciences .....	J. Larry Martin
Dean, School of Business Administration .....	James M. Gray
Dean, School of Education and Psychology.....	Michael J. Horvath
Dean, School of Technology .....	Jack G. Spurlin
Head, Department of Art .....	Jim J. Bray
Head, Department of Biology .....	John P. Messick
Head, Department of Communications and Foreign Languages .....	Richard W. Massa
Head, Department of Computer Science .....	Jack L. Oakes
Head, Department of Criminal Justice .....	C. Blake Wolf
Head, Department of Dental Hygiene .....	Sandra A. Scorse
Head, Department of Education .....	James V. Sandrin
Head, Department of English.....	Stephen J. Spector
Head, Department of Mathematics .....	Juan L. Vazquez
Head, Department of Music.....	Pete Havely
Head, Department of Nursing .....	Barbara J. Box
Head, Department of Physical Education .....	J. Dirk Nelson
Head, Department of Physical Sciences .....	Vernon D. Baiamonte
Head, Department of Social Science .....	D. David Tate
Head, Department of Theatre .....	Jay E. Fields
Director of Admissions .....	Richard D. Humphrey
Director of Alumni Affairs .....	Kreta C. Gladden
Director of Assessment and Institutional Research.....	Delores A. Honey
Director of Budgeting .....	Jon M. Johnson
Director of Career Planning and Placement.....	Nancy D. Loome
Director of Continuing Education .....	R. Jerry Williams
Director of Learning Center .....	Eileen A. Godsey
Director of Men's Athletics .....	James L. Frazier
Director of Missouri Southern Foundation .....	W. Sue Billingsly
Director of Personnel .....	Theresa A. Agee
Director of Physical Plant .....	Robert W. Beeler
Director of Public Information .....	Gwen E. Hunt
Director of Student Financial Aid.....	James E. Gilbert
Director of Women's Athletics .....	Sallie L. Beard

# Faculty

(Date indicates first year of full-time  
MSSC service)

**David L. Ackiss**

Professor, English 1981  
Director of Honors Program  
Bachelor's (A.B.), Davidson College  
Master's (M.A.), College of William and Mary  
Doctorate (Ph.D.), Duke University  
Summer Studies, Oxford University, England

**Franklyn W. Adams**

Associate Professor, Biology 1988  
Bachelor's (B.S.), University of Southern  
Mississippi  
Master's (M.A.), Montevallo University  
Doctorate (Ph.D.), University of Southern  
Mississippi

**Lawrence R. Albright, II**

Professor, Chemistry 1969  
Bachelor's (B.S.), Northwest Missouri State  
University  
Master's (M.S.), University of Nebraska  
Doctorate (Ph.D.), University of Nebraska

**Ann L. Allman**

Assistant Professor, Counseling 1988  
Counselor  
Bachelor's (B.A.), University of Missouri  
Master's (M.Ed.), University of Missouri  
Doctorate (Ph.D.), University of Missouri

**Grace E. Ayton**

Assistant Professor, Nursing 1986  
Bachelor's (B.S.N.), Columbia Union College  
Master's (M.N.), Wichita State University

**Brian C. Babbitt**

Professor, Psychology 1977  
Bachelor's (B.A.), Western Washington  
State College  
Master's (M.A.), University of New Mexico  
Doctorate (Ph.D.), University of New Mexico

**Vernon D. Biamonte**

Professor, Chemistry 1967  
Head, Department of Physical Sciences  
Bachelor's (A.B.), University of Northern  
Colorado  
Master's (M.A.), University of Northern  
Colorado  
Doctorate (Ph.D.), Indiana University  
Post-Doctoral Fellow, University of  
California - Los Alamus

**Scott L. Ballard**

Instructor, Physical Education 1990  
Head Women's Basketball Coach  
Bachelor's (B.S.), Southwest Missouri State  
University  
Master's (M.S.), Drury College

**Michael E. Banks**

Associate Professor, Education 1975  
Bachelor's (B.S.), Oklahoma State  
University  
Master's (M.S.), New Mexico Highlands  
University  
Doctorate (Ph.D.), University of Kansas

**Francis L. Bartholet**

Assistant Professor, Computer Aided  
Drafting and Design 1987  
Bachelor's (B.S.), St. Cloud State University  
Master's (M.Ed.), University of Minnesota  
Doctoral Studies, University of Iowa

**Wiley A. Beals**

Instructor, Radiology 1982  
Associate (A.S.), Missouri Southern State  
College  
Graduate, Burge School of Radiologic  
Technology  
Registered Radiologic Technologist  
American Registry of Radiologic Tech-  
nologists

**Sallie L. Beard**

Associate Professor, Physical Education 1972  
Director of Women's Athletics  
Bachelor's (B.S.), Missouri Southern State  
College  
Master's (M.S.), Pittsburg State University

**Kelly Binns**

Instructor, Counseling 1986  
Counselor  
Bachelor's (B.A.), Missouri Southern State  
College  
Master's (M.S.), Pittsburg State University

**Erik J. Bitterbaum**

Professor, Biology 1994  
Vice President For Academic Affairs  
Bachelor's (B.A.), Occidental College  
Master's (M.A.), Occidental College  
Doctorate (Ph.D.), University of Florida  
Year Abroad, Sussex University, Falmer,  
England

**Robert S. Black**

Assistant Professor, Library 1988  
Reference Librarian  
Bachelor's (B.A.), Millikin University  
Master's (M.L.S.), Indiana University

**Holland C. Blades, Jr.**

Professor, Business 1987  
Bachelor's (B.A.), Millsaps College  
Master's (M.B.A.), University of Southern  
Mississippi  
Doctorate (Ph.D.), University of Arkansas

**Beverly A. Block**

Professor, Business 1984  
Bachelor's (B.S.), Southern Nazarene  
University  
Master's (M.S.), University of Arkansas  
Doctorate (Ed.D.), University of Arkansas

**Harold W. Bodon**

Professor, Communications 1971  
Bachelor's (B.A.), University of Utah  
Master's (M.S.), California State University-  
Hayward  
Doctorate (Ph.D.), Brigham Young  
University

**Barbara J. Box**

Associate Professor, Nursing 1986  
Director of Nursing  
Bachelor's (B.S.N.), Carlow College  
Master's (M.S.), University of Oklahoma  
Doctorate (Ed.D.), Oklahoma State University

**Karen Bradshaw**

Instructor, Business 1985  
Bachelor's (B.S.B.A.), Pittsburg State  
University  
Master's (M.B.A.), Pittsburg State University

**Jim J. Bray**

Professor, Art 1992  
Head, Department of Art  
Bachelor's (B.F.A.), Phillips University  
Master's (M.F.A.), Tulsa University

**Barry E. Brown**

Associate Professor, Philosophy 1987  
Bachelor's (B.A.), Kalamazoo College  
Master's (M.A.), Columbia University  
Master's (M.A.), University of Rochester  
Doctorate (Ph.D.), University of Rochester

**James F. Brown**

Associate Professor, English 1984  
Bachelor's (B.S.), University of Iowa  
Master's (M.A.), University of Iowa (English)  
Master's (M.A.), University of Iowa  
(Education)  
Doctorate (Ph.D.), University of Iowa

**Ward H. Bryant**

Assistant Professor, Communications 1992  
Bachelor's (B.S.J.), University of Kansas  
Master's (M.S.), University of Kansas

**Linda S. Caldwell**

Assistant Professor, Counseling 1994  
Director of Counseling  
Bachelor's (B.S.), Southeast Missouri State  
University  
Master's (M.A.), Southeast Missouri State  
University  
Doctorate (Ph.D.), Southern Illinois  
University

**Valerie Carlisle**

Assistant Professor, Student Center 1985  
Coordinator of Student Activities  
Bachelor's (B.A.), West Virginia University  
Master's (M.Ed.), University of South  
Carolina

<b>Douglas M. Carnahan</b> Associate Professor, Student Services 1978 Dean of Students and Director of Student Life Bachelor's (A.B.), Bowling Green State University Master's (M.Ed.), University of Georgia Specialist (Ed.S.), Pittsburg State University Doctoral Studies, Oklahoma State University	<b>S. Mark Comstock</b> Assistant Professor, Business 1993 Bachelor's (M.B.A.), Missouri Southern State College Doctorate (Ph.D.), University of Oklahoma	<b>C. Clayton Deem</b> Instructor, Admissions 1991 Admissions Counselor Bachelor's (B.S.E.), Missouri Southern State College Master's (M.S.), Pittsburg State University
<b>Albert J. Carnine</b> Associate Professor, Music 1977 Bachelor's (B.M.E.), Illinois Wesleyan University Master's (M.M.E.), Southern Methodist University Doctorate (D.M.A.), University of Texas	<b>C. Martin Conklin</b> Assistant Professor, Physical Education 1988 Head Athletic Trainer Bachelor's (B.S.E.), Missouri Southern State College Master's (M.A.), University of Tulsa	<b>Elliott A. Denniston</b> Professor, English 1974 Bachelor's (B.A.), Princeton University Master's (M.A.), University of Michigan Doctorate (Ph.D.), University of Michigan
<b>Patrick Cassens</b> Professor, Mathematics 1988 Bachelor's (B.S.), Saint Louis University Master's (M.S.), Saint Louis University Doctorate (Ph.D.), Saint Louis University Post Doctoral Studies, Harvard University	<b>Bill Cooke</b> Assistant Professor, Physical Education 1988 Assistant Football Coach Bachelor's (B.A.), Fort Lewis College Master's (M.A.), Adams State College	<b>Glenn D. Dolence</b> Professor, Student Services 1969 Vice President For Student Services Bachelor's (B.S.), Missouri Valley College Master's (M.S.), Pittsburg State University Doctorate (Ed.D.), University of Arkansas
<b>Val A. Christensen</b> Assistant Professor, Art 1979 Director of Spiva Art Gallery, MSSC Bachelor's (B.F.A.), University of Nebraska, Lincoln Master's (M.F.A.), Wichita State University	<b>Robert L. Corn</b> Instructor, Physical Education 1989 Head Men's Basketball Coach Bachelor's (B.S.E.), Missouri Southern State College Master's (M.A.), University of Alabama At Birmingham	<b>Mary Lou Dove</b> Assistant Professor, Library 1969 Serials/Reference Librarian Bachelor's (B.S.), University of Missouri Master's (M.A.), University of Missouri Master's (M.S.), Pittsburg State University
<b>Charles (Bud) L. Clark</b> Assistant Professor, Music 1989 Choral Director Bachelor's (B.M.E.), Central Missouri State University Master's (M.A.), Central Missouri State University	<b>Jimmy C. Couch</b> Associate Professor, English 1970 Bachelor's (B.A.), Texas Tech University Master's (M.A.), Texas Tech University Doctorate (Ph.D.), University of South Carolina	<b>Janice Dursky</b> Associate Professor, Education 1984 Bachelor's (B.A.), University of Iowa Master's (M.A.), University of Iowa Doctorate (Ed.D.), Drake University
<b>Robert L. Clark</b> Professor, Communications 1984 Bachelor's (B.A.), Brigham Young University Master's (M.A.), Brigham Young University Doctorate (Ph.D.), University of Oregon	<b>E. Scott Cragin</b> Instructor, Business 1989 Bachelor's (B.S.), Rose-Hullman Institute of Technology Master's (M.M.), Northwestern University Doctoral Studies, Oklahoma State University	<b>Joy S. Dworkin</b> Assistant Professor, English 1991 Bachelor's (B.A.), Reed College Master's (M.A.), University of Michigan Master's (M.F.A.), University of Michigan Doctorate (Ph.D.), University of Michigan
<b>Samuel L. Claussen</b> Associate Professor, Theatre 1977 Bachelor's (A.B.), Missouri Southern State College Bachelor's (B.A.), Missouri Southern State College Master's (M.F.A.), University of Virginia	<b>M. Lisa Crawford</b> Instructor, Communications 1990 Bachelor's (B.S.), University of Missouri — Columbia Master's (M.S.), University of Missouri — Columbia Graduate Study, University of Missouri — Columbia	<b>J. Steve Earney</b> Assistant Professor, Computer Science 1981 Asst. Vice President For Information Services Bachelor's (B.B.A.), University of Arkansas Master's (M.B.A.), University of Central Arkansas Certified Data Processor (CDP)
<b>Mark K. Clinton</b> Assistant Professor, Music 1992 Artist In Residence Bachelor's (B.M.), Peabody Conservatory of Music Master's (M.M.), Peabody Conservatory of Music Doctorate (D.M.A.), Rice University	<b>E. Carolyn Cunningham</b> Assistant Professor, Business 1978 Bachelor's (B.S.), Missouri Southern State College Master's (M.S.), Pittsburg State University	<b>Duane O. Eberhardt</b> Professor, Business 1986 Bachelor's (B.S.), San Diego State University Master's (M.A.), University of Southern California Doctorate (Ph.D.), University of Southern California
	<b>Charles N. Curtis</b> Assistant Professor, Mathematics 1992 Bachelor's (B.S.), University of Washington Master's (M.S.), University of Washington Doctorate (Ph.D.), University of Washington	<b>Mary A. Elick</b> Assistant Professor, Mathematics 1974 Bachelor's (B.S.E.), Southwest Missouri State University Master's (M.S.), University of Arkansas Graduate Study, University of Arkansas

# 180 / Faculty

## **Christine B. Eller**

Assistant Professor, Nursing 1981  
Bachelor's (B.S.N.), University of Connecticut  
Master's (M.S.N.), University of North Carolina

## **William C. Elliott**

Professor, Music 1968  
Bachelor's (B.M.E.), Pittsburg State University  
Master's (M.M.), Pittsburg State University  
Doctoral Studies, University of Northern Colorado

## **Kenneth G. Evans**

Instructor, Physical Education 1989  
Assistant Football Coach  
Bachelor's (B.S.), Northeastern Oklahoma State University  
Master's (M.S.), University of Oklahoma

## **Jay E. Fields**

Professor, Theatre 1987  
Head, Department of Theatre  
Bachelor's (B.A.), West Liberty State College  
Master's (M.A.), West Virginia University  
Master's (M.A.), Central Michigan University  
Doctorate (Ph.D.), Kent State University  
Summer Studies, Oxford University, England

## **Michael D. Fletcher**

Assistant Professor, Biology 1994  
Bachelor's (B.S.), Southwest Missouri State University  
Master's (M.S.), University of Oklahoma

## **Timothy W. Flood**

Instructor, Mathematics 1993  
Bachelor's (B.S.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Doctorate (Ph.D.), Oklahoma State University

## **Jon H. Fowler**

Professor, Art 1968  
Bachelor's (B.A.), Southwest Missouri State University  
Master's (M.F.A.), University of Arkansas

## **James L. Frazier**

Associate Professor, Physical Education 1971  
Director of Men's Athletics  
Bachelor's (A.B.), University of Wichita  
Master's (M.A.), Wichita State University

## **C. Elaine Freeman**

Associate Professor, Special Programs 1980  
Director of Special Programs (Retention-Tracking)  
Bachelor's (A.B.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Specialist (Ed.S.), Pittsburg State University  
Doctorate (Ph.D.), University of Tulsa

## **E. Sam Gibson**

Associate Professor, Biology 1967  
Bachelor's (B.S.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Doctorate (Ph.D.), Kansas State University

## **James E. Gilbert**

Associate Professor, Financial Aid 1974  
Director of Student Financial Aid  
Bachelor's (A.B.), University of Missouri  
Master's (M.A.), Southwest Missouri State University  
Specialist (Ed.S.), Pittsburg State University

## **Kreta C. Gladden**

Assistant Professor, Alumni Affairs 1974  
Director of Alumni Affairs  
Bachelor's (B.S.), Missouri Southern State College  
Master's (M.B.A.), Pittsburg State University  
Doctorate (Ed.D.), University of Arkansas

## **Ellen Godsey**

Associate Professor, Learning Center 1984  
Director of Learning Center  
Bachelor's (B.A.), East Texas State University  
Master's (M.S.), East Texas State University  
Specialist (Ed.S.), Pittsburg State University  
Doctorate (Ed.D.), Oklahoma State University

## **Larry W. Goode**

Associate Professor, Business 1968  
Bachelor's (B.S.), Pittsburg State University  
Master's (M.S.), Pittsburg State University

## **James M. Gray**

Associate Professor, Business 1969  
Dean, School of Business Administration  
Bachelor's (B.S.B.A.), Dana College  
Master's (M.B.A.), University of Arkansas  
Certified Systems Professional (CSP)

## **Robert H. Green**

Instructor, Physical Education 1993  
Assistant Football Coach  
Bachelor's (B.S.), Central Oklahoma State University  
Master's (M.Ed.), Central Oklahoma State University

## **George C. Greenlee**

Associate Professor, English 1970  
Bachelor's (B.A.), Northeast Louisiana State College  
Master's (M.A.), Northeast Louisiana State College  
Doctoral Studies, North Texas State University

## **Betsy Q. Griffin**

Professor, Psychology 1978  
Head, Department of Psychology  
Bachelor's (B.A.), East Carolina University  
Master's (M.A.), University of South Carolina

Doctorate (Ph.D.), University of South Carolina

## **Conrad E. Gubera**

Professor, Sociology 1967  
Bachelor's (B.S.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Doctorate (Ph.D.), Oklahoma State University  
Post Doctoral Studies, Columbia University  
Fellow with the National Council on US—Arab Relations, Washington, DC  
Fellow with East-West Center, University of Hawaii (Honolulu)  
Fulbright-Hayes Scholar (Hungary and Poland)

## **Henry L. Harder**

Professor, English 1970  
Bachelor's (A.B.), Subiaco College  
Master's (M.A.), University of Arkansas  
Doctorate (Ph.D.), University of Maryland

## **Dennis R. Harmon**

Assistant Professor, Mathematics 1989  
Bachelor's (B.S.), University of Oklahoma  
Master's (M.A.), University of Oklahoma  
Doctorate (Ph.D.), University of Oklahoma

## **Robert A. Harris**

Assistant Professor, Music 1971  
Bachelor's (B.M.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Pupil of Rosina Lhevinne

## **Pete Havely**

Associate Professor, Music 1979  
Head, Department of Music & Band Director  
Bachelor's (B.M.E.), Central Oklahoma State University  
Master's (M.M.E.), Central Oklahoma State University  
Doctoral Studies, Michigan State University

## **Barbara M. Hernandez**

Assistant Professor, Physical Education 1990  
Bachelor's (B.A.Ed.), Northwestern State University  
Master's (M.Ed.), Northwestern State University

## **Dennis L. Herr**

Assistant Professor, Computer Science 1985  
Bachelor's (B.S.), Missouri Southern State College  
Master's (M.B.A.), Pittsburg State University  
Certified Data Processor (CDP)

**Garry J. Hess**

Assistant Professor, Art 1971  
Bachelor's (B.S.), Fort Hays State University  
Master's (M.A.), Pittsburg State University  
Graduate Study, Pittsburg State University,  
East Texas State

**Jean M. Hobbs**

Instructor, Physical Education 1991  
Wellness Director and Assistant Athletic  
Trainer  
Bachelor's (B.S.), Missouri Southern State  
College  
Master's (M.S.), Baylor University

**Tom L. Holman**

Associate Professor, History 1962  
Bachelor's (A.B.), Southwestern College  
Master's (M.A.), Pittsburg State University  
Doctorate (Ed.D.), Oklahoma State  
University

**Delores A. Honey**

Associate Professor, 1980  
Director of Assessment and Institutional  
Research  
Bachelor's (B.S.), Southwest Missouri State  
University  
Master's (M.Ed.), University of Missouri —  
Columbia  
Specialist (Ed.S.), Pittsburg State University  
Doctorate (Ph.D.), University of Missouri —  
Columbia  
Summer Studies, Oxford University, England

**Michael J. Horvath**

Professor, 1995  
Dean, School of Education, Psychology  
and Physical Education  
Bachelor's (A.B.), Indiana University  
Master's (M.S.), Indiana University at  
South Bend  
Doctorate (Ph.D.), University of Arizona

**Richard D. Humphrey**

Associate Professor, Admissions 1968  
Director of Admissions  
Bachelor's (B.S.), Pittsburg State University  
Master's (M.S.), Pittsburg State University

**Duane L. Hunt**

Associate Professor, Theatre 1963  
Bachelor's (B.S.), Southwest Missouri State  
University  
Master's (M.A.), University of Arkansas  
Graduate Study, University of Arkansas

**Gwen E. Hunt**

Instructor, Public Information 1976  
Director of Public Information  
Bachelor's (B.S.), Southwest Missouri State  
University  
Master's (M.A.), University of Arkansas  
Graduate Study, University of Colorado

**Susan S. Huston**

Instructor, Library 1989  
Technical Services Librarian  
Bachelor's (B.A.), Oberlin College  
Master's (M.A.), Western Michigan  
University  
Master's (M.S.L.), Western Michigan  
University  
Specialist (S.A.), Western Michigan  
University

**James R. Jackson**

Professor, Biology 1976  
Bachelor's (B.S.), Colorado State University  
Master's (M.A.), University of Northern  
Colorado  
Doctorate (Ph.D.), Rutgers State University  
Visiting Scholar, Wolfson College Oxford  
University, England

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Associate Professor, Nursing 1974  
Bachelor's (B.S.N.), University of Nebraska  
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Professor, Business 1977  
Bachelor's (B.A.), University of Rajputana,  
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Associate Professor, Business 1974  
Bachelor's (B.S.B.A.), Missouri Southern  
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Assistant Professor, Mathematics 1968  
Bachelor's (B.S.E.), University of Oklahoma  
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Professor, Psychology 1963  
Bachelor's (B.S.), Pittsburg State University  
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Doctoral Studies, Oklahoma State  
University

# 182 / Faculty

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Master's (M.A.), Pittsburg State University  
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Master's (M.A.), Mississippi College  
Doctorate (Ph.D.), Auburn University

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## **Julio S. Leon**

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Instructor, Music 1991  
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Master's (M.Ed.), Delta State University

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Professor, Business 1976  
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Bachelor's (B.S.), Monmouth College  
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Bachelor's (B.A.), Southeastern Oklahoma State University  
Master's (M.A.), Southern Illinois University — Carbondale  
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Professor, English 1971  
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## **Richard W. Massa**

Professor, Communications 1972  
Head, Department of Communications  
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Graduate Study, University of Arkansas, University of Missouri

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# 184 / Faculty

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Instructor, 1967  
Controller & Assistant Vice President For Business Affairs  
Bachelor's (B.S.B.A.), Missouri Southern State College  
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# **186 / Faculty**

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Master's (M.A. — Spanish), Middlebury College  
Doctorate (D.M.L.), Middlebury College  
Advanced Study, Universite De Paris

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## **Rhonda L. White**

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Professor, Chemistry 1970  
Director of Regional Crime Laboratory  
Bachelor's (B.S.), University of Kentucky  
Doctorate (Ph.D.), Iowa State University  
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Associate Professor, Law Enforcement 1976  
Bachelor's (B.S.), Missouri Southern State College  
Master's (M.S.), Central Missouri Specialist (Ed.S.), Pittsburg State University  
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Master's (M.A.), Bowling Green State University  
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## **R. Michael Wilson**

Instructor, Physical Education 1989  
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## **C. Blake Wolf**

Assistant Professor, Law Enforcement 1990  
Head, Department of Criminal Justice  
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## **Carolyn Wolfe**

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Master's (M.S.), Pittsburg State University

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Associate Professor, Library 1969  
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## **Michael L. Yates**

Associate Professor, Political Science 1980  
Bachelor's (B.A.), Southern Illinois University  
Master's (M.Ed.), Southern Illinois University  
Law Degree (Juris Doctorate), University of Missouri  
Summer Studies, Oxford University, England

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Associate Professor, Communications 1986  
Bachelor's (B.S.E.), Kansas State College  
Master's (M.S.), Kansas State College  
Specialist (Ed.S.), Central Missouri State University  
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## **Donald R. Youst**

Assistant Professor, Political Science 1971  
Bachelor's (B.A.), Kansas State Teachers College — Emporia  
Master's (M.S.), Kansas State Teachers College — Emporia  
Doctorate (Ph.D.), University of Nebraska

# **Emeritus Faculty**

## **Enid Blevins**

English 1966

## **Loretta Frazier**

Head Librarian 1948

## **Cleetus Headlee**

English 1946

## **Julie S. Hughes**

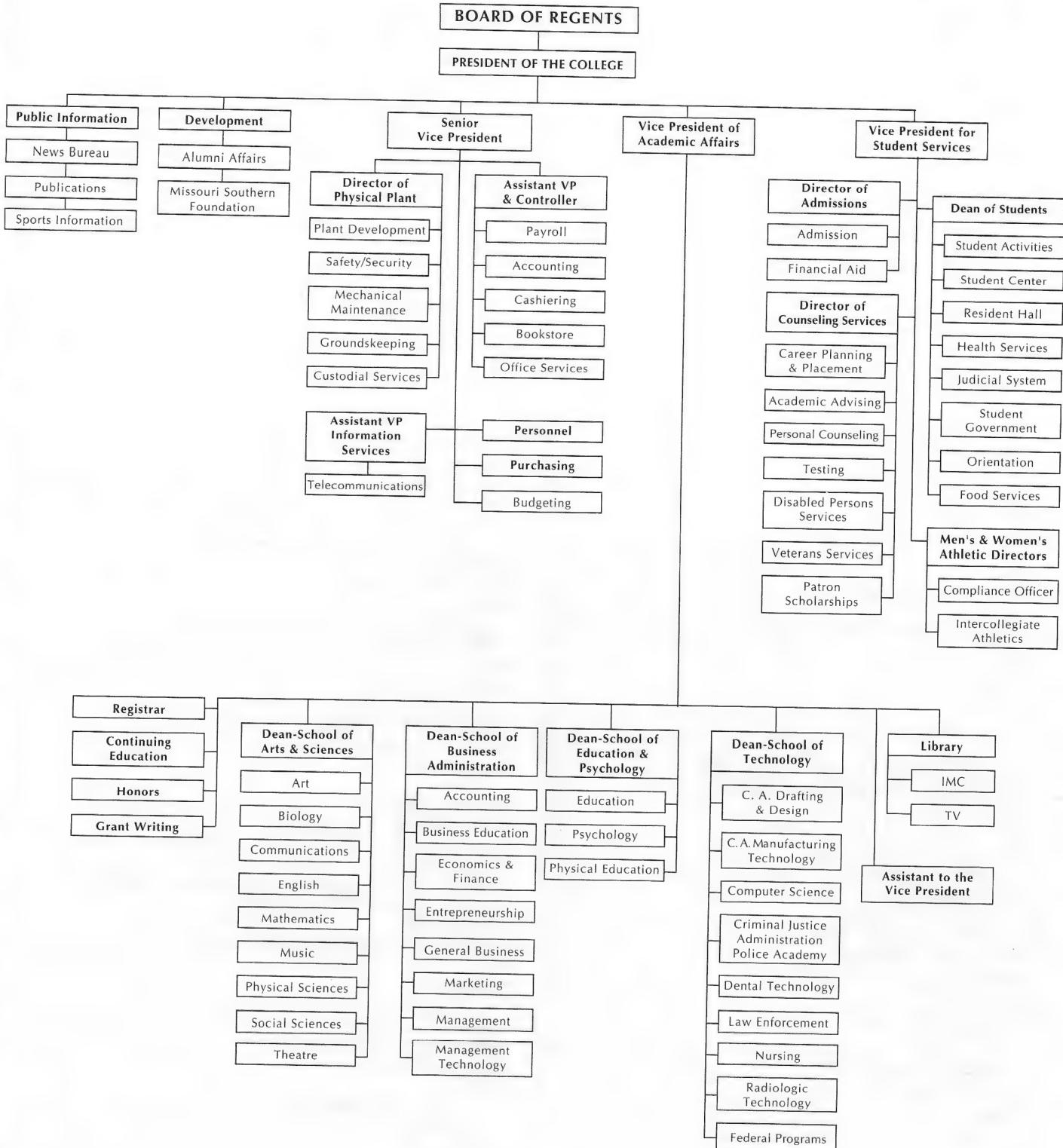
History 1963

## **Grace C. Mitchell**

English 1958

## **Dorothy A. Stone**

Business Administration 1939



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## **Equal Opportunity**

Missouri Southern State College does not discriminate on the basis of disability, race, color, religion, national origin, sex or age in the recruitment and admission of students, the recruitment and employment of faculty and staff and the operation of any of its programs and activities, as specified by federal laws and regulations. The Director of Personnel is the designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and the Age Discrimination Act of 1967.

## **Disability Access**

Missouri Southern State College reschedules and relocates classes to ensure accessibility under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. If any person has a special need, please contact the Director of the Learning Center who, in conjunction with the office of the Vice President for Academic Affairs, will reschedule or relocate the class to provide accessibility or provide other assistance as required by law. Information concerning accessible facilities is available from the Director of the Learning Center.

## **Family Educational Rights and Privacy**

The College may disclose personally identifiable information from an educational record of a student without consent in following situations:

1. The disclosure is directory information which includes name, address, telephone listing, date and place of birth, major, participation in activities and sports, dates of attendance, degrees and awards received and most recent previous institution attended.
2. The disclosure is to school officials, including teachers, who have a legitimate education interest.
3. The disclosure is to parents of a dependent student as defined in the Internal Revenue Code.
4. The disclosure is in connection with a health or safety emergency.
5. Other situations listed in 34CFR 99.31.

## **Policy Changes**

The College reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students, to be effective whenever determined by the College. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.







# Honors Program Application

Miss  
Ms.  
Mrs.  
Mr.

Name \_\_\_\_\_ Last \_\_\_\_\_ First \_\_\_\_\_ Initial \_\_\_\_\_

Social Security No: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Telephone No: (\_\_\_\_) \_\_\_\_\_

Address: \_\_\_\_\_  
Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Highest ACT Composite Score: \_\_\_\_\_

Test Date: \_\_\_\_\_

Have you been admitted to MSSC? Yes  No

If not, please apply at once.

**Check below if one applies.**

- National Merit Finalist
- National Merit Semi-Finalist
- National Merit Letter of Commendation

Have you applied for financial aid? Yes  No

If not, please consider doing so.

Please list awards, extracurricular activities, and interests below. Attach a separate sheet if necessary.

High School: \_\_\_\_\_ GPA: \_\_\_\_\_

\_\_\_\_\_

Year of Graduation: \_\_\_\_\_ Class Standing: \_\_\_\_\_ / \_\_\_\_\_

\_\_\_\_\_

Intended Major: \_\_\_\_\_

\_\_\_\_\_

**For already enrolled or transfer student**

College or University Attended: \_\_\_\_\_

\_\_\_\_\_

Hours Completed: \_\_\_\_\_ GPA: \_\_\_\_\_

\_\_\_\_\_

Quarter System: \_\_\_\_\_

\_\_\_\_\_

Semester System: \_\_\_\_\_

\_\_\_\_\_

Please list the names of the two people you plan to ask for references.

Name \_\_\_\_\_ Title \_\_\_\_\_

\_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_

\_\_\_\_\_

For Office Use Only

Action taken:

Signature

Date

# INSTRUCTIONS

## REQUIREMENTS

For entering freshmen, an Enhanced ACT composite score of 28 or above or a GPA of at least 3.5 (on a 4-point scale) is required for eligibility to apply for admission to the Honors Program.

Students who have completed at least 15 but fewer than 30 hours of coursework with a least a 3.5 GPA either at MSSC or at another accredited college or university are eligible to apply for admission to the Honors Program.

## APPLICATIONS PROCEDURES

### Incoming Freshman

- \* A completed **APPLICATION FORM** must be filed.
- \* Please request that an official high school **TRANSCRIPT** be sent directly to the Honors Program.
- \* Your **ACT RESULTS** must be on record, either separately or on your transcript.
- \* Arrange to have two **LETTERS OF RECOMMENDATION** sent directly to the Honors Program, one from high school principal and one from one of your high school teachers. Additional letters are also invited.
- \* You need to arrange for an **INTERVIEW**.
- \* You may be required to submit an **ESSAY** describing your academic goals and explaining your participation in the Honors Program.

### Already Enrolled or Transfer Student

- \* A completed **APPLICATION FORM** must be filed.
- \* Please request that an official college **TRANSCRIPT** be sent directly to the Honors Program.
- \* Your **ACT RESULTS** must be on record, either separately or on your transcript.
- \* Arrange to have two **LETTERS OR RECOMMENDATION** from you college instructors sent directly to the Honors Program. Additional letters are also invited.
- \* You will need to arrange for an **INTERVIEW**.
- \* You may be required to submit an **ESSAY** describing your academic goals and explaining your participation in the Honors Program.

For consideration for entrance into the program in the fall semester, applications and interviews must be complete by April 15; for the spring semester all materials should be received by November 15.

### Send all application materials to:

Missouri Southern State College

Honors Program Director

3950 E. Newman Rd.

Joplin, MO 64801-1595

Telephone: Toll free 1-800-606-MSSC (Admission, Athletics, Financial Aid, Housing)

Telephone: In Joplin 1-417-625-9300 or 625-9748

*Missouri Southern State College is an equal opportunity and affirmative action institution.*

*The college reserves the right to amend regulations when necessary.*

GPA \_\_\_\_\_ Need \_\_\_\_\_ Other \_\_\_\_\_ Scholarship \_\_\_\_\_ Code \_\_\_\_\_ Activities \_\_\_\_\_

Office Use Only

Please complete application on both sides  
**Missouri Southern State College**

Scholarships Room 117  
3950 E. Newman Road  
Joplin, Missouri 64801-1595  
417-625-9398

## Scholarship Application

Note: By filing this form you will be considered for any one of 200 Patron Scholarships available through the Missouri Southern State College Scholarship program.

**How to apply:** 1. Must apply or have applied for admission.

2. Transfer students must have transcripts on file with Registrar's Office (Transfer students may be eligible for Junior College Transfer Scholarships. Please contact the Financial Aid Office at Missouri Southern State College.).

3. **Type or Print** application.

Name \_\_\_\_\_  
First \_\_\_\_\_ Middle or Initial \_\_\_\_\_ Last \_\_\_\_\_ Maiden \_\_\_\_\_

Social Security Number \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_  
Number of Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_

Male \_\_\_\_\_ Female \_\_\_\_\_ Married \_\_\_\_\_ Single \_\_\_\_\_

Date of High School Graduation \_\_\_\_\_ GED \_\_\_\_\_

High School Attended \_\_\_\_\_ City/State \_\_\_\_\_

Entering Freshman \_\_\_\_\_ Freshman \_\_\_\_\_ Sophomore \_\_\_\_\_ Junior \_\_\_\_\_  
(0 hrs) (1-29 hrs) (30-59 hrs) (60-89 hrs)

Senior \_\_\_\_\_ \*Transfer \_\_\_\_\_ \*College last attended \_\_\_\_\_  
(90 plus hrs) (new transfer only)

Major \_\_\_\_\_ Minor \_\_\_\_\_

**Check** criteria which apply to you

- 1. Student Nurses' Association (SNA)
- 2. Communication (major)
- 3. Non-traditional student
- 4. Beimdiek Insurance employee
- 5. Son or Daughter of MSSC Alumni
- 6. Graduate - top half of class
- 7. Father or Grandfather Lions Club Member
- 8. Interested in technology major
- 9. Minority (optional):\*
  - Black (non-Hispanic);
  - White (non-Hispanic);
  - American Indian;
  - Hispanic;
  - Asian;
  - other

**Entering Freshman or**

**New College Transfer Students only-**

Application will not be processed unless this section is completed and signed by your H.S. counselor/principal or College Registrar.

(HS) School GPA on a 4.00 grade point system  
(College) Last Semester completed GPA: \_\_\_\_\_

Signature \_\_\_\_\_  
(Title)

Date \_\_\_\_\_

Please do not send transcript to Financial Aid Office.

\*Some scholarships may have criteria based on minority

Are you receiving any of the following scholarship?

Non-Residency \_\_\_\_\_ Junior College Transfer \_\_\_\_\_ Honors \_\_\_\_\_ President's \_\_\_\_\_

Regents' \_\_\_\_\_ Deans' \_\_\_\_\_ Performing Aid \_\_\_\_\_ Athletic \_\_\_\_\_ Other \_\_\_\_\_

Are you currently employed? \_\_\_\_\_ If yes, list place of employment. \_\_\_\_\_

(If dependent) Father's employer \_\_\_\_\_

(If dependent) Mother's employer \_\_\_\_\_

(If married) Spouse's employer \_\_\_\_\_

Note: Please complete the following:

Scholastic honors: \_\_\_\_\_

Activities: \_\_\_\_\_

Organizations: \_\_\_\_\_

Volunteer Work: \_\_\_\_\_

All qualified applicants will receive consideration without regard to non-merit factors: race, sex, creed or handicap.

**Statement of Certification:** If I am awarded a scholarship program administered by Missouri Southern State College I must maintain satisfactory academic progress.

I further understand that application to the scholarship program **must** be turned in prior to **March 1**.

- Note:**
1. Students may not receive more than one scholarship issued by the College. This includes the Honors, President's, Regents', Jr. College, Deans', Non-Residency and Patrons Scholarship Program. Outstanding students who receive more than one scholarship must choose which award they will accept unless special approval is made by the Director of Student Financial Aid.
  2. Scholarship recipients may receive athletic and performing awards which must be coordinated with the scholarship; not to exceed the student's college costs.
  3. All scholarships are issued for one year only.
  4. All scholarships are subject to change without notice and are subject to review by the scholarship committee upon receipt of funds and authorization by the Board of Regents.

Date Signed \_\_\_\_\_ Signature \_\_\_\_\_

### Application for Admission

\$15.00 NON-REFUNDABLE application fee required for first time students only.

1. Social Security Number (Required) \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_
2. Name (Print) \_\_\_\_\_  
(Last) \_\_\_\_\_ (First) \_\_\_\_\_ (Middle) \_\_\_\_\_ (Maiden or Former Names) \_\_\_\_\_
3. Sex (Circle) Male Female
4. a. Are you a veteran? (Circle) Yes No b. Are you eligible for Veterans Educational Benefits? (Circle) Yes No
5. Date of Birth: Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_
6. Permanent mailing address:  
Street or Route \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_  
State \_\_\_\_\_ Zip Code \_\_\_\_\_ Telephone Number (\_\_\_\_) \_\_\_\_\_  
How long have you resided at the above address? \_\_\_\_\_ If less than 1 year, indicate addresses for past year.
7. Are you a U.S. Citizen: (Circle) Yes No If no, what visa do you hold? \_\_\_\_\_  
If no, country of birth \_\_\_\_\_ Education Major \_\_\_\_\_
8. a. Student Status (Circle)  
1. First Time Student (at college level) 4. Post Graduate (4 year degree or greater)  
2. Transfer Student (attended any other college) 5. Credit-in-Escrow (permission of authorized high school official)  
3. Former Student of MSSC or Joplin JUCO 6. Transient-summer only (letter of approval from attending college)
- b. College credit hours completed (Circle) 0-29 (Fresh.) 30-59 (Soph.) 60-89 (Jr.) 90 or more (Sr. or Grad.)
9. Admission Status (Circle one only)  
**Regular-Degree Seeking:** \*Other - Non-Degree Seeking:  
1. Baccalaureate (4-yr.) 1. \_\_\_\_\_ 5. Return to Learn  
2. Associate (2-yr.) 2. Special 6. Workshop  
3. Certificate (1-yr.) 3. Transient 7. Audit  
4. Undecided, or Post-Grad Studies 4. Credit-in-Escrow 8. \_\_\_\_\_  
**\*NOTE:** Students circling one of the 'OTHER' categories are not eligible for financial aid and do not meet admission requirements (see Catalog).
10. The college term in which you expect to enroll: Fall 19 \_\_\_\_\_ Spring 19 \_\_\_\_\_ Summer 19 \_\_\_\_\_
11. a. High school date of graduation: 19 \_\_\_\_\_ or date GED passed: 19 \_\_\_\_\_  
b. Name of high school \_\_\_\_\_  
(or location of where GED was taken) \_\_\_\_\_ (City) \_\_\_\_\_ (State) \_\_\_\_\_
- c. Are you a mid-term high school graduate? (Circle) Yes No
12. College attended - put most recent on the top line--you are required to list all colleges attended:  

Name	Location	Dates attended From	To	Degrees Earned
13. a. Are you currently on suspension from any college? (Circle) Yes No  
Name of college \_\_\_\_\_ Semester and year of suspension \_\_\_\_\_
14. Have you been immunized against: a. Measles (two doses)? (Circle) Yes No b. Rubella? (Circle) Yes No
15. What is your racial background? (Circle)  
African American Asian or Pacific Islander Caucasian Hispanic Native American or Alaskan Native
16. Next of kin (in case of emergency) \_\_\_\_\_  
Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone (\_\_\_\_) \_\_\_\_\_
17. I certify that the information provided is complete and correct to the best of my knowledge, and that I have read the admission and transcript requirements.

(Signature)

(Date submitted)

Check here if you would like an application for housing.

Thank you for your application. Please let us know if we may be of any further assistance.

Subject to change without notice.

# Admission Requirements

*Subject to change without notice*

## FIRST - TIME COLLEGE STUDENT:

1. Application
  2. \$15.00 non-refundable admission fee
  3. Final high school transcript with graduation date, rank in class, and grade point average mailed directly from the high school to MSSC, OR copy of GED certificate.
  4. Enhanced ACT scores on file at MSSC.
  5. REGULAR ADMISSION - Students will be admitted if:
    - a) they rank in the upper one-half of their high school graduating class; OR
    - b) they have a composite score of 18 or above on the ACT admission test
- Admission denied if students do not meet the above standards. Denial may be appealed to the Admission Office Review Committee.
6. GED students must have a composite score of 18 or above on the ACT test. Denial may be appealed.
  7. Students may not repeat residual ACT testing until 60 days have passed since their previous residual testing.

## TRANSFER STUDENT:

1. Application
2. \$15.00 application fee
3. a) Student must request that all official college transcripts be mailed directly to the MSSC Admission Office within 20 days after the first day of classes.

**Missouri Southern State College  
Admission Office  
3950 E. Newman Road  
Joplin, MO 64801-1595  
1-800-606-MSSC**

- b) Students with a baccalaureate degree need to provide only the transcript from the institution that conferred the degree. Post-graduate work may be requested if applicable to work at MSSC.  
The transcript(s) must be mailed by the previous institution directly to the MSSC Admission Office
4. ACT SCORES MUST BE ON FILE AT MSSC - unless you have completed college math, English, and history.
5. Selected majors may be required to have Enhanced ACT scores on file before consideration into their programs.
6. Admission denied if student is not eligible to return to the last college or university attended  
(Must meet requirements of suspension from last college before entering MSSC.)

## ADMISSION TO SPECIAL PROGRAMS

TEACHER EDUCATION, HONORS

NURSING, DENTAL HYGIENE, RADIOLOGIC TECHNOLOGY

Candidates who are interested in the above programs must also apply for admission to the individual department. These programs have separate applications, requirements, and deadlines, in addition to the admission standards for the college. For full information on admission and acceptance criteria to these programs contact the specific department.

## FOREIGN STUDENT:

1. All students whose first language is NOT English must pass the TOEFL Test and score a minimum of 535 or score a least 75% on the Michigan Test.
2. Foreign students must meet additional admission requirements. Application and requirements are available upon request.

## MEETING THE REQUIREMENTS

All high school graduates who graduate Spring 1996 or after will need to complete all the core requirements for college admission beginning in the Fall 1996.

English 4 units, Math 3 units, Social Studies 3 units, Science 2 units, Visual Performing Art 1 unit, and core electives 3 units. (See counselor or admission staff for correct courses that meet the 16 unit requirement.)

# Residence Hall Information

## On Campus residence requirements

All freshmen and sophomores under the age of 21 are required to live in Missouri Southern State College Residence Halls to the extent space is available, unless they are married, live with their parents, live with a relative, or are excused by the Dean of Students.

## General Information

Missouri Southern houses over 500 students on campus. The two main residence halls are Blaine Hall (200 men) and McCormick Hall (100 women). Apartment-style units house an additional 250 students.

The rooms on campus are furnished with twin size extra long beds, bed pads, study carrels, desks, chairs, lamps, wastebaskets, mini blinds, night stands, and free local telephone service is provided along with voice mail and individual access codes. Students are required to bring sheets, pillow, blankets, and all personal belongings. The apartment units are also furnished with sofa, chair, lamps, and coffee table.

All residence hall facilities are air-conditioned. Cable TV rooms, study lounges, recreational areas, IBM Personal Computers, vending machines, and laundry facilities are also included. The Residence Halls are staffed by two full-time professional Resident Directors who are assisted by a paraprofessional staff of 18 Staff Assistants.

Resident students are also entitled to food service. Twenty meals are served each week in the Student Center Cafeteria. Individual meals feature salad bar and unlimited servings, including entrees.

## For additional information

Call: Missouri Southern State College  
Residence Life Office  
(417) 625-9522  
1-800-606-MSSC toll free

or write: Missouri Southern State College  
Residence Life Office  
3950 E. Newman Rd.  
Joplin MO 64801-1595

## Request for application

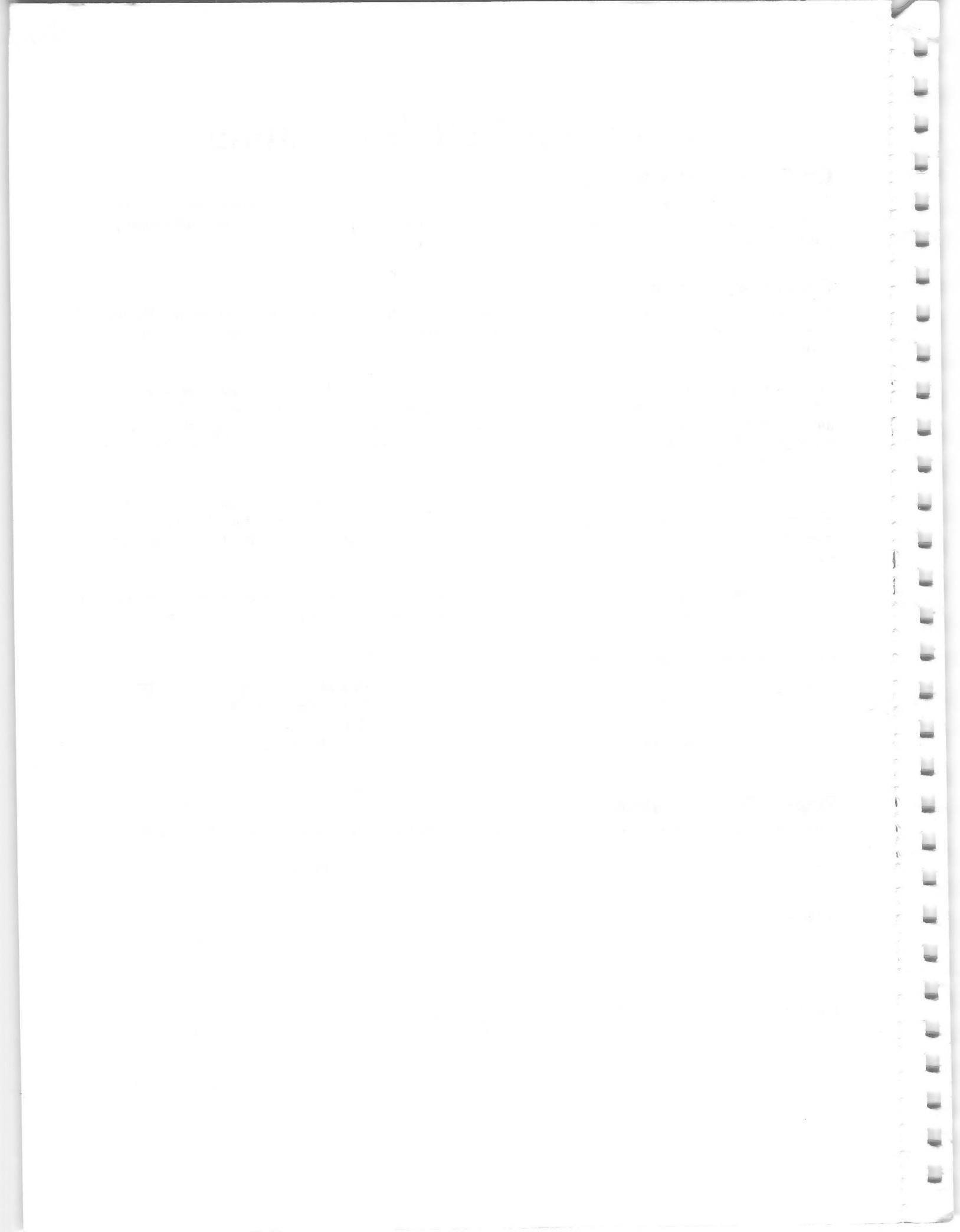
Complete and return the form below to receive a Contract for Room and Board Accommodations

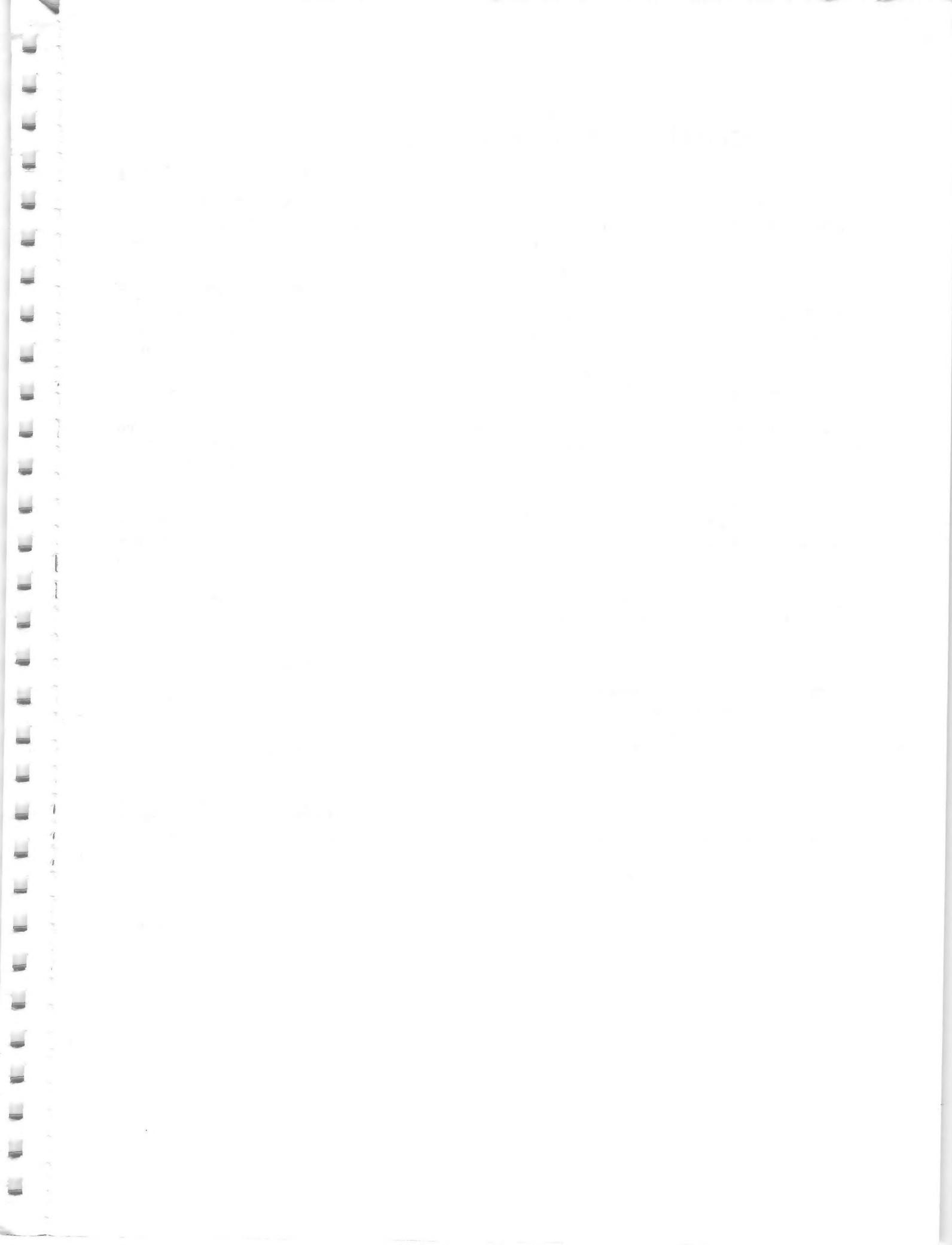
Name \_\_\_\_\_ Date \_\_\_\_\_  
(Last) (First) (Middle)

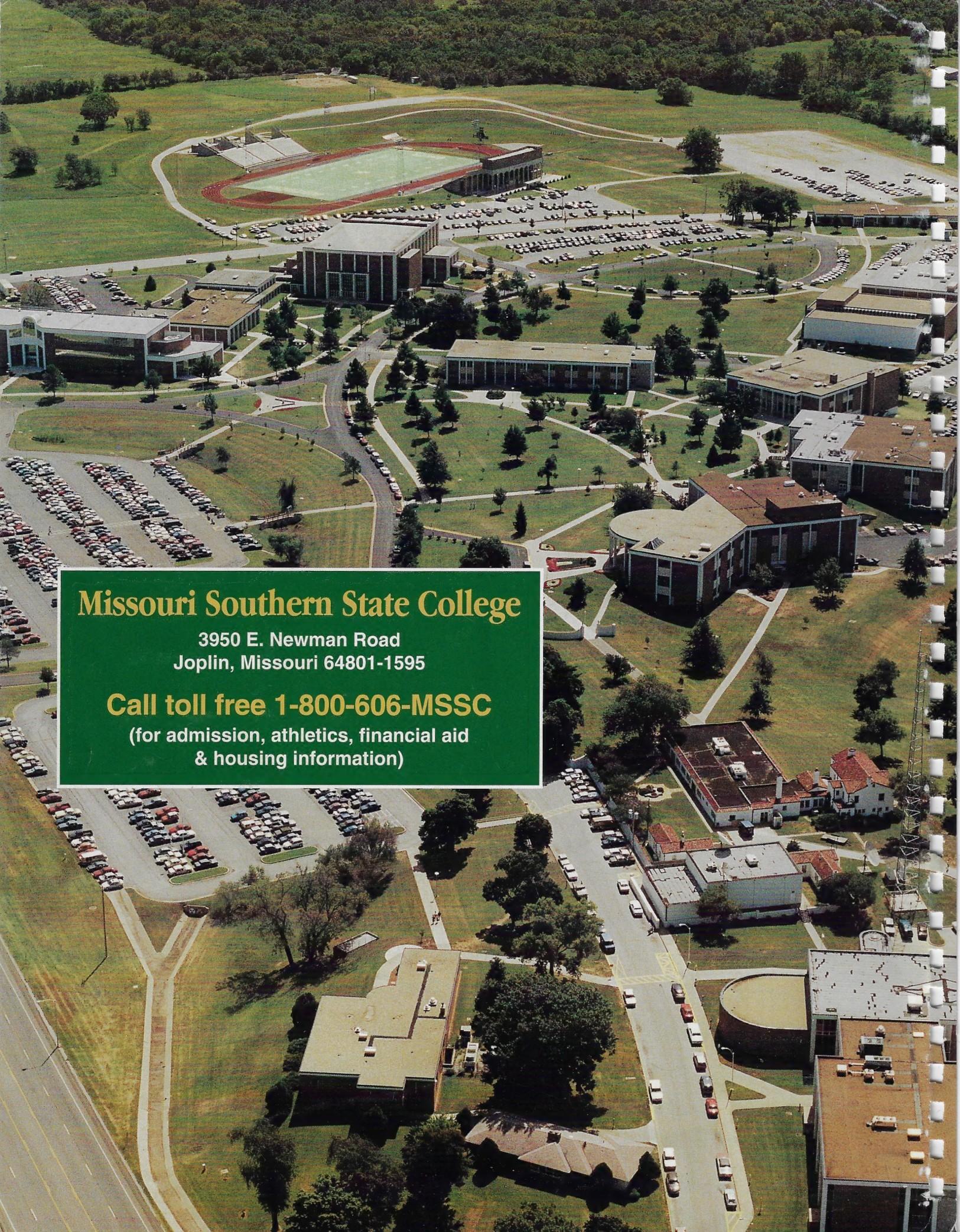
Address \_\_\_\_\_  
(Street) (City) (State) (Zip Code)

Telephone ( ) \_\_\_\_\_

Detach and return this form to: Missouri Southern State College  
Residence Life Office  
3950 E. Newman Road  
Joplin, MO 64801-1595







## Missouri Southern State College

3950 E. Newman Road  
Joplin, Missouri 64801-1595

**Call toll free 1-800-606-MSSC**

(for admission, athletics, financial aid  
& housing information)